UC-NRLF
$B 619 710

Book Incomplete

REESE LIBRARY
OF THE
UNIVERSITY OF CALIFORNIA.

Class No. 523t

236

LABORATORY CALCULATIONS

AND

SPECIFIC-GRAVITY TABLES.

BY

JOHN S. ADRIANCE, A.M.,

ANALYTICAL CHEMIST TO THE NURSERY AND CHILD'S HOSPITAL AND THE NEW YORK
INFANT ASYLUM, FELLOW OF THE LONDON CHEMICAL SOCIETY, MEMBER OF
THE SOCIETY OF DYERS AND COLORISTS, MEMBER OF THE SOCIETY
OF CHEMICAL INDUSTRY, MEMBER OF THE AMERICAN CHEMI-
CAL SOCIETY, FELLOW OF THE AMERICAN ASSOCIA-
TION FOR ADVANCEMENT OF SCIENCE, ETC.

THIRD EDITION, REVISED AND ENLARGED.

REESE LIBRARY
OF THE
UNIVERSITY
OF CALIFORNIA

NEW YORK:
JOHN WILEY & SONS.
LONDON: CHAPMAN & HALL, LIMITED.
1897.

QD65
A3

Copyright, 1892,
By John Wiley & Sons.
74883

ROBERT DRUMMOND, ELECTROTYPER AND PRINTER. NEW YORK.

74883

PREFACE TO THE THIRD EDITION.

IN this the third edition of this book the author would repeat that his aim has been to offer to the student, as well as the analytical chemist, a substitute for much of his laborious calculations. For this purpose all the tables which were used in the former edition have been enlarged and others added. All calculations have been made with the greatest care, so that they may be thoroughly depended on in every particular. Should any errors be found, however, the author would esteem it a great favor if they were pointed out, as his purpose is solely to relieve the monotonous part of analysis and to obviate the liability of error.

All these tables will be found of constant use to the analytical chemist, and the author will feel repaid if the helps which he here offers will relieve the chemist somewhat of the calculations which he is obliged to perform.

All the calculations are based on the atomic weights as determined in 1882 by Prof. F. W. Clarke.

REESE LIBRARY
OF THE
UNIVERSITY
OF CALIFORNIA

CONTENTS.

PAGE
Absorption of Carbonic Acid in HCl........................... 90
Absorption of Nitrogen in Hypochlorite Solution.............. 91
Alcohol Table, Tralle's...................................... 93
Alloys, Approximate Composition.............................. 98
Atomic Weights... 1
Atmosphere, Weight of 1 c.c.................................. 128
Barometer Heights, in Millimetres and Inches................. 129
Beaumé's Hydrometer Tables................................... 92
Beaumé's Degrees in those of Tralle's Alcoholmeter........... 94
Carbonic Acid, Weight of 1 c.c............................... 16
Capacity Glass Tube.. 66
Coins, Silver and Minor, Composition......................... 98
Comparison of the Scales of Fahrenheit, Centigrade, Réaumur.. 123
Comparison of the Mercurial Thermometer with the Air Thermometer.. 129
Converting the Per Cent of Nitrogen found into Ammonia and Albuminoids.. 25
Converting Per Cent Nitrogen into Albuminoids............... 34
Converting Cubic Centimetres into Minims, etc................ 132
Converting Grams into Grains................................. 132
Conversion of a Column of Water to a Column of Mercury....... 129
Conversion of Pressure in Atmospheres........................ 130
Conversion Factors... 8
Conversion Table, K_2PtCl_6 to K_2O............................ 42
“ “ $Mg_2P_2O_7$ to P_2O_3, $Ca_3P_2O_8$, P_2............ 48, 62
“ “ SiO_2 to Si.............................. 56
“ “ $Mg_2P_2O_7$ to MgO......................... 67
“ “ $BaSO_4$ to S.............................. 73
Directions for making Ordinary Reagents for the Laboratory.... 133
Factors, changing Volume of Gas to Weight.................... 6
Mercury, Volume and Density.................................. 131
Molecular Weights.. 2

PAGE
Molecular Weights of the Fatty Acids ... 7
Nitrogen, Weight of 1 c.c ... 18
Percentage Composition ... 79
Percentage of Alcohol in Wines ... 131
Rules for the Conversion of Thermometric Degrees ... 138
Specific Gravity Tables of Acetic Acid ... 103
——— of Alcohol by Weight and Volume ... 95, 96
——— of Aluminium Chloride ... 111
——— of Aluminium Potassium Sulphate ... 118
——— of Aluminium Ammonium Sulphate ... 118
——— of Ammonia ... 107
——— of Ammonium Carbonate ... 122
——— of Ammonium Chloride ... 112
——— of Ammonium Sulphate ... 115
——— of Arsenic Acid and Oxide ... 102
——— of Barium Chloride ... 110
——— of Barium Nitrate ... 113
——— of Calcium Chloride ... 110
——— of Calcium Nitrate ... 113
——— of Cadmium Nitrate ... 116
——— of Citric Acid ... 104
——— of Cobalt Nitrate ... 116
——— of Copper Chloride ... 112
——— of Copper Nitrate ... 116
——— of Copper Sulphate ... 121
——— of Formic Acid ... 104
——— of Hydriodic Acid ... 106
——— of Hydrobromic Acid ... 106
——— of Hydrochloric Acid ... 100
——— of Hydrocyanic Acid ... 105
——— of Hydrofluosilicic Acid ... 105
——— of Iodic Acid ... 105
——— of Iron Nitrate ... 116
——— of Iron Sulphate ... 121
——— of Lead Acetate ... 119
——— of Lead Nitrate ... 116
——— of Magnesium Chloride ... 111
——— of Magnesium Sulphate ... 117
——— of Nitric Acid ... 101
——— of Oxalic Acid ... 104

PAGE
Specific Gravity Tables of Phosphoric Acid and Oxide.......... 102
—— of Platinum Chloride.................................. 113
—— of Potassium Bichromate................................ 120
—— of Potassium Chloride.................................. 109
—— of Potassium Carbonate................................. 121
—— of Potassium Chromate.................................. 119
—— of Potassium Chromium Sulphate......................... 118
—— of Potassium Ferricyanide.............................. 119
—— of Potassium Ferrocyanide.............................. 117
—— of Potassium Nitrate................................... 117
—— of Potassium Oxide and Hydroxide....................... 109
—— of Potassium Sulphate.................................. 118
—— of Silver Nitrate...................................... 116
—— of Sodium Carbonate.................................... 122
—— of Sodium Chloride..................................... 108
—— of Sodium Hyposulphite................................. 120
—— of Sodium Nitrate...................................... 114
—— of Sodium Oxide.. 108
—— of Sodium Sulphate................................ 115, 118
—— of Stannic Chloride.................................... 112
—— of Stannous Chloride................................... 114
—— of Sulphuric Acid...................................... 99
—— of Tannin Solution..................................... 106
—— of Tartaric Acid....................................... 103
—— of Zinc Nitrate.. 116
—— of Zinc Sulphate....................................... 118
Sugar Determined by the Saccharometer.................... 97, 98
Table to Convert Percentage of Na_2O in Caustic Soda with English Atomic Weights to its Liverpool Equivalent........... 80
Table to Convert Milligrams per Litre to Grains per U. S. Gallon 82
Table to Calculate actual Cubic Centimetres used when Solution is not Normal.. 83
Table for the Dilution of Alcohol......................... 139
Table Reducing Volume of Gas to 0° C. and 760 mm........... 23
Twaddle's Hydrometer and Specific Gravity.................. 94
Vapors, Aqueous Tension.................................... 98
Vapors, Mercury Tension.................................... 130
Weights of Different Gases................................. 138
Water, Volume and Density.................................. 130
Weights, Measures, etc..................................... 140

REESE LIBRARY
OF THE
UNIVERSITY
OF CALIFORNIA

CHEMICAL CALCULATIONS.

ATOMIC WEIGHTS ACCORDING TO PROF. F. W. CLARKE.

(*Constants of Nature*, Part V. 1882.)

ELEMENTS.	Symbols.	Atomic Weights.	ELEMENTS.	Symbols.	Atomic Weights.
Aluminium	Al	27.009	Molybdenum	Mo	95.527
Antimony	Sb	119.955	Nickel	Ni	57.928
Arsenic	As	74.918	Nitrogen	N	14.021
Barium	Ba	136.763	Osmium	Os	198.494
Bismuth	Bi	207.523	Oxygen	O	15.9633
Boron	B	10.941	Palladium	Pd	105.737
Bromine	Br	79.768	Phosphorus	P	30.958
Cadmium	Cd	111.835	Platinum	Pt	194.415
Cæsium	Cs	132.583			[197.18]
Calcium	Ca	39.990	Potassium	K	39.019
Carbon	C	11.9736	Rhodium	Ro	104.055
Cerium	Ce	140.424	Rubidium	Rb	85.251
Chlorine	Cl	35.37	Ruthenium	Ru	104.217
Chromium	Cr	52.009	Scandium	Sc	43.980
Cobalt	Co	58.887	Selenium	Se	78.797
Columbium	Cb	93.812	Silicon	Si	28.195
Copper	Cu	63.173	Silver	Ag	107.675
Didymium	D	144.573	Sodium	Na	22.998
Erbium	E	165.891	Strontium	Sr	87.374
Fluorine	Fl	18.984	Sulphur	S	31.984
Gallium	Ga	68.854	Tantalum	Ta	182.144
Glucinum	Gl	9.085	Tellurium	Te	127.960
Gold	Au	196.155	Thallium	Tl	203.715
Hydrogen	H	1	Thorium	Th	233.414
Indium	In	113.398	Tin	Sn	117.698
Iodine	I	126.557	Titanium	Ti	49.9997
Iridium	Ir	192.651	Tungsten	W	183.610
Iron	Fe	55.913	Uranium	U	238.482
Lanthanum	La	138.526	Vanadium	V	51.256
Lead	Pb	206.471	Ytterbium	Yb	172.761
Lithium	Li	7.0073	Yttrium	Yt	89.816
Magnesium	Mg	23.959	Zinc	Zn	64.9045
Manganese	Mn	53.906	Zirconium	Zr	89.367
Mercury	Hg	199.712			

TABLE OF ATOMIC AND MOLECULAR WEIGHTS.

Elements and Compounds.	Weights.	Approximate weights
Aluminium	27.009	27
$AlBr_3$	266.313	266.3
$AlCl_3$	133.119	133.1
$AlFl_3$	83.961	84
$Al(OH)_3$	77.8989	77.9
$AlI_3 + 12H_2O$	622.2396	622.2
$Al(NO_3)_3+15H_2O$	482.1912	482.2
Al_2O_3	101.9079	101.9
$Al_2(SO_4)_3$	341.5296	341.5
$Al_2(SO_4)_3+18H_2O$	664.8690	664.9
$Al_2(SO_4)_3+K_2SO_4 + 24H_2O$	946.5240	946.5
$Al_2(SO_4)_3+(NH_4)_2SO_4 + 24H_2O$	904.5280	904.5
$Al_2P_2O_8$	243.6404	243.6
Ammonia (NH_3)	17.021	17
NH_4	18.021	18
NH_4OH	34.9843	35
NH_4Cl	53.391	53.4
NH_4NO_3	79.9319	79.9
$(NH_4)_2SO_4 + Al_2(SO_4)_3+ 24H_2O$	904.528	904.5
$(NH_4)_2SO_4 + Fe_2(SO_4)_3+ 24H_2O$	962.3360	962.3
$(NH_4)_2SO_4 + Fe(SO_4) + 6H_2O$	391.4092	391.4
$(NH_4)_2SO_4 + Cr_2(SO_4)_3+24H_2O$	954.528	954.5
$(NH_4)_2Cr_2O_7$	251.8031	251.8
NH_4Br	97.789	97.8
$(NH_4)_2CO_3$	95.9055	95.9
NH_4Cl	53.391	53.4
NH_4Fl	37.005	37
NH_4I	144.578	144.6
$(NH_4)_6Mo_7O_{24} + 4H_2O$	1231.787	1231.8
$(NH_4)_2SO_4 + MnSO_4 + 6H_2O$	389.4022	389.4
$NH_4MgAsO_4 + 12H_2O$	396.3108	396.3
$NH_4MgAsO_4 + \frac{1}{2}H_2O$	189.7329	189.7
$NH_4MgPO_4 + 6H_2O$	244.5710	244.6
$NH_4HNaPO_4 + 4H_2O$	208.6834	208.7
$(NH_4)_2SO_4 + NiSO_4 + 6H_2O$	393.4242	393.4
NH_4NO_3	79.9319	79.9
$(NH_4)_2C_2O_4$	123.8424	123.8
$(NH_4)_2S$	68.026	68
$(NH_4)_2HPO_4$	131.8532	131.9
$NH_4NaHPO_4 + 4H_2O$	208.6834	208.7
$(NH_4)_2PtCl_6$	442.6770	442.7
$(NH_4)_2SO_4$	131.8792	131.9
Antimony	119.955	120
$HSbO_2$	152.8816	152.9
$HSbO_3$	168.8449	168.8
$SbOCl$	171.2883	171.3
$SbCl_3$	226.065	226.1
$SbCl_5$	296.805	296.8
Sb_2O_3	287.7999	287.8
Sb_2O_4	303.7632	303.8
Sb_2O_5	319.7265	319.7
Sb_2S_3	335.862	335.9
Sb_2S_5	399.830	399.8
$Sb_2(SO_4)_3$	527.4216	527.4
$KSbC_4H_4O_7 \frac{1}{2}H_2O$	331.5931	331.6
Arsenic	74.918	74.9
$AsBr_3$	314.222	314.2
$AsCl_3$	181.028	181
AsI_3	454.589	454.6
$AsFl_3$	131.870	131.9
As_2O_3	197.7259	197.7
As_2O_5	229.6525	229.7
As_2S_3	245.788	245.8
As_2S_5	309.756	309.8
$NH_4MgAsO_4 + 12H_2O$	396.3108	396.3
$NH_4MgAsO_4 + \frac{1}{2}H_2O$	189.7329	189.7
$Mg_2As_2O_7$	309.4971	309.5

ATOMIC AND MOLECULAR WEIGHTS—*Continued.*

ELEMENTS AND COMPOUNDS.	Weights.	Approximate weights	ELEMENTS AND COMPOUNDS.	Weights.	Approximate weights
Barium	136.7630	136.8	$Ca(OCl)_2$	142.6566	142.7
$BaCO_3$	196.6265	196.6	$CaCO_3$	99.8535	99.9
$BaCrO_4$	252.6252	252.6	$CaHPO_4$	135.8012	135.8
$BaCl_2 + 2H_2O$	243.4296	243.4	$CaHPO_4 + 2H_2O$	171.7278	171.7
$Ba(NO_3)_2$	260.5848	260.6	$Ca_3(PO_4)_2$	309.5924	309.6
BaO	152.7263	152.7	$CaH_4P_2O_8$	233.6124	233.6
BaO_2	168.6896	168.7	$CaSO_4$	135.8272	135.8
$Ba(OH)_2$	153.7263	153.7	**Carbon**	11.9736	12
$BaSO_4$	232.6002	232.6	C_2	23.9472	23.9
$BaSiFl_6$	278.862	278.9	C_3	35.9208	35.9
BaS	168.747	168.7	C_4	47.8944	47.9
Bismuth	207.523	207.5	C_5	59.8680	59.9
$BiCl_3$	313.633	313.6	C_6	71.8416	71.8
$BiOCl$	258.8563	258.9	C_7	83.8152	83.8
Bi_2O_3	462.9359	462.9	C_8	95.7888	95.8
$Bi(NO_3)_3+5H_2O$	483.0722	483.1	C_9	107.7624	107.8
$Bi_2(SO_4)_3$	702.5576	702.6	CH_4	15.9736	16
Bi_2S_3	510.998	511	CN	25.9946	26
$Bi_6Cr_2O_{15}$	1588.606	1588.6	H_2CO_3	61.8635	61.9
Boron	10.941	10.9	CO	27.9369	27.9
BCl_3	117.051	117.1	CO_2	43.9002	43.9
BFl_3	67.893	67.9	CO_3	59.8635	59.9
H_3BO_3	61.8309	61.8	**Chlorine**	35.37	35.4
B_2O_3	69.7719	69.8	Cl_2	70.74	70.7
$KBFl_4$	125.896	125.9	Cl_3	106.11	106.1
Bromine	79.768	79.8	Cl_4	141.48	141.5
HBr	80.768	80.8	Cl_5	176.85	176.9
$KBrO_3$	166.6769	166.7	Cl_6	212.22	212.2
$NaBr$	102.766	102.8	Cl_7	247.59	247.6
KBr	118.787	118.8	Cl_8	282.96	283
$AgBr$	187.443	187.4	Cl_9	318.33	318.3
HBr	80.768	80.8	$AgCl$	143.045	143
$HBrO_3$	127.6579	127.7	$NaCl$	58.368	58.4
Cadmium	111.8350	111.8	Cl_2O_5	150.5565	150.6
$CdCl_2$	182.575	182.6	HCl	36.37	36.4
$CdCO_3$	171.6985	171.7	**Chromium**	52.009	52
CdO	127.7983	127.8	Cr_2O_3	151.9079	151.9
CdS	143.819	143.8	$K_2Cr_2O_7$	293.7991	293.8
$CdSO_4 + 4H_2O$	279.5254	279.5	K_2CrO_4	193.9002	193.9
Calcium	39.99	40	$K_2SO_4 + Cr_2$		
$Ca(C_2H_3O_2)_2$	157.7376	157.7	$(SO_4)_3 + 24H_2O$	996.524	996.5
CaO	55.9533	56	$CrCl_3$	158.119	158.1
$CaCl_2$	110.73	110.7			

REESE LIBRARY
OF THE
UNIVERSITY

ATOMIC AND MOLECULAR WEIGHTS—*Continued.*

ELEMENTS AND COMPOUNDS.	Weights.	Approximate weights	ELEMENTS AND COMPOUNDS.	Weights.	Approximate weights
Cobalt	58.887	58.9	**Lead**	206.471	206.5
CoO	74.8503	74.9	PbO	222.4343	222.4
$CoCO_3$	118.7505	118.8	PbO_2	238.3976	238.4
$CoSO_4 + K_2SO_4$			Pb_3O_4	683.2662	683.3
$+ 6H_2O$	436.3792	436.4	$Pb(C_2H_3O_2)_2$		
$CoSO_4 + 7H_2O$	280.4673	280.5	$3H_2O$	378.1085	378.1
$Co(NO_2)_3$			$PbCrO_4$	322.3332	322.3
$+ 3KNO_2$	451.6296	451.6	$PbCl_2$	277.211	277.2
Copper	63.173	63.2	$PbCO_3$	266.3345	266.3
$CuCl_2$	133.913	133.9	$Pb(NO_3)_2$	330.2928	330.3
CuO	79.1363	79.1	PbS	238.455	238.5
$CuSO_4 + 5H_2O$	248.8267	248.8	$PbSO_4$	302.3082	302.3
Cu_2S	158.330	158.3	**Magnesium**	23.959	24
CuS	95.157	95.2	$MgCl_2$	94.699	94.7
Fluorine	18.984	19	$MgCO_3$	83.8225	83.8
HFl	19.984	20	$MgHPO_4 + 7H_2O$	245.5133	245.5
$3NaF, AlF_3$	209.907	209.9	MgO	39.9223	39.9
$CaFl_2$	77.958	78	$MgSO_4 + 7H_2O$	245.5393	245.5
$BaSiFl_6$	278.862	278.9	$Mg_2P_2O_7$	221.5771	221.6
K_2SiFl_6	220.137	220.1	$MgNH_4AsO_4$		
Hydrogen	1	1	$+ \frac{1}{2}H_2O$	189.7329	189.7
H_2O	17.9633	18	**Manganese**	53.906	53.9
$2H_2O$	35.9266	35.9	MnO	69.8693	69.9
$3H_2O$	53.8899	53.9	MnO_2	85.8326	85.8
$4H_2O$	71.8532	71.9	Mn_3O_4	225.5712	225.6
$5H_2O$	89.8165	89.8	$Mn_2P_2O_7$	281.4711	281.5
$6H_2O$	107.7798	107.8	$MnSO_4 + 7H_2O$	275.4863	275.5
$7H_2O$	125.7431	125.7	MnS	85.89	85.9
$8H_2O$	143.7064	143.7	$KMnO_4$	156.7782	156.8
$9H_2O$	161.6697	161.7	**Mercury**	199.7120	199.7
H_2O_2	33.9266	33.9	HgO	215.6753	215.7
Iodine	126.557	126.6	Hg_2O	415.3873	415.4
KI	165.576	165.6	HgI_2	452.826	452.8
AgI	234.232	234.2	$HgCl_2$	270.452	270.5
PbI_2	459.585	459.6	Hg_2Cl_2	470.164	470.2
Iron	55.913	55.9	$Hg_2(NO_3)_2$	523.2458	523.2
FeO	71.8763	71.9	HgS	231.696	231.7
Fe_2O_3	159.7159	159.7	**Nickel**	57.928	57.9
$FeCl_3$	162.023	162	$NiCl_2$	128.668	128.7
FeS_2	119.881	119.9	$NiCO_3$	117.7915	117.8
FeS	87.897	87.9	NiO	73.8913	73.9
$FeSO_4 + 7H_2O$	277.4933	277.5	$NiSO_4 + 7H_2O$	279.5083	279.5
Fe_3O_4	231.5922	231.6	$Ni(NO_3)_2 + 6H_2O$	289.5296	289.5

ATOMIC AND MOLECULAR WEIGHTS—*Continued.*

ELEMENTS AND COMPOUNDS.	Weights.	Approximate weights	ELEMENTS AND COMPOUNDS.	Weights.	Approximate weights
NiS	89.912	89.9	K_3FeCN_6	328.9376	329
Nitrogen	14.021	14	K_4FeCN_6	367.9566	368
N_2	28.0420	28	K_2CO_3	137.9015	137.9
N_3	42.063	42	K_2S	110.022	110
N_4	56.084	56	K_2SO_4	173.8752	173.9
N_5	70.105	70	KNO_3	100.9299	100.9
N_6	84.126	84	KNO_2	84.9666	85
N_7	98.147	98	**Silicon**	28.195	28.2
N_8	112.168	112	SiO_2	60.1216	60.1
N_9	126.189	126	K_2SiFl_6	220.137	220.1
N_2O	44.0053	44	$SiFl_4$	104.131	104.1
NO	29.9843	30	**Silver**	107.675	107.7
NO_2	45.9476	45.9	Ag_2O	231.3133	231.3
N_2O_5	107.8585	107.9	AgCN	133.6696	133.7
NO_3	61.9109	61.9	AgCl	143.045	143
N_2O_3	75.9319	75.9	$AgNO_3$	169.5859	169.6
HNO_3	62.9109	62.9	Ag_3PO_4	417.8362	417.8
KNO_3	100.9299	100.9	AgI	234.232	234.2
Oxygen	15.9633	16	Ag_2S	247.334	247.3
O_2	31.9266	31.9	**Sodium**	22.998	23
O_3	47.8899	47.9	NaCl	58.368	58.4
O_4	63.8532	63.9	$NaNO_3$	84.9089	84.9
O_5	79.8165	79.8	NaOH	39.9613	40
O_6	95.7798	95.8	$Na_2S_2O_3$	157.8539	157.9
O_7	111.7431	111.7	$NaHCO_3$	83.8615	83.9
O_8	127.7064	127.7	$Na_2SO_4 + 10H_2O$	321.466	321.5
O_9	143.6697	143.7	$Na_2B_4O_7 + 10H_2O$	381.1361	381.1
Phosphorus	30.958	31	Na_2S	77.980	78
P_2O_5	141.7325	141.7	Na_2HPO_4		
$U_2P_2O_{11}$	714.4763	714.5	$+ 12H_2O$	357.3668	357.4
Ag_3PO_4	417.8362	417.8	Na_2CO_3	105.8595	105.9
PO_4	94.8112	94.8	Na_2O	61.9593	62
Platinum	194.415	194.4	Na_2SO_4	141.8332	141 8
$PtCl_4$	335.895	335.9	**Strontium**	87.374	87.4
$(NH_4)_2PtCl_4$	371.937	371.9	$SrCl_2$	158.114	158.1
K_2PtCl_6	484.673	484.7	$Sr(NO_3)_2$	211.1958	211.2
Potassium	39.019	39	SrO	103.3373	103.3
K_2O	94.0013	94	$SrSO_4$	183.2112	183.2
KOH	55.9823	56	$SrCO_3$	147.2375	147.2
KCl	74.389	74.4	**Sulphur**	31.984	32
KCN	65.0136	65	SO_2	63.9106	63.9
KSCN	96.9976	97	SO_3	79.8739	79.9
$KClO_3$	122.2789	122.3	SO_4	95.8372	95.8

ATOMIC AND MOLECULAR WEIGHTS—*Continued.*

ELEMENTS AND COMPOUNDS.	Weights.	Approximate weights	ELEMENTS AND COMPOUNDS.	Weights.	Approximate weights
H_2SO_4	97.8372	97.8	**Zinc**	64.9045	64.9
H_2SO_3	81.8739	81.9	$ZnCl_2$	135.6445	135.6
$H_2S_2O_7$	177.7111	177.7	$ZnCO_3$	124.768	124.8
H_2S	33.984	34	ZnO	80.8678	80.9
Tin	117.698	117.7	$ZnSO_4 + 7H_2O$	286.4848	286.5
$SnCl_2$	188.438	188.4	ZnS	96.8885	96.9
SnO_2	149.6246	149.6	$K_2SO_4ZnSO_4$		
$SnCl_2 + 2H_2O$	224.3646	224.4	$+ 6H_2O$	442.3967	442.4
SnS	149.682	149.7			

TABLE OF MOLECULAR WEIGHTS.—*Continued.*

COMPOUNDS	Weights.	Approximate weights	COMPOUNDS.	Weights.	Approximate weights.
NH_3PO_4	148.8742	148.9	$LiCl$	42.3773	42.4
SbH_3	122.9550	123.0	Li_2SO_4	109.8518	109.9
ASH_3	77.9180	77.9	Si_2O	29.9779	29.9779
CrO_3	99.8989	99.9	Li_2CO_3	73.8781	73.9
Cu_2O	142.3093	142.3	Li_3PO_4	115.8331	115.8
PdI_2	358.8510	358.9	$MgSO_4$	119.7962	119.8
$FeAs_2$	205.7490	205.7	Molybdenum	95.5270	95.5
$Fe_4Fe_3Cn_{18}$	859.2938	859.3	MO_3	143.4169	143.4
$Pb(OH)_2$	240.3976	240.4	$NH_3 12MoO_3PO_4$	1869.8770	1869.9
$2PbCO_3$			$AgBr$	187.4430	187.4
$+ Pb(OH)_2$	773.0666	773.1	$Zn_2P_2O_7$	303.4681	303.5
Lithium	7.0073	7.0	$ZnNH_4PO_4$	177.7367	177.7

FACTORS FOR CHANGING VOLUME OF GAS TO WEIGHT IN GRAMS.

Each c.c. of NO
at N. T. P. ×

.000627939 = gms. N
.001342871 = " NO
.003383616 = " $C_3H_5(NO_3)_3$
.002817508 = " HNO_3
.002415262 = " N_2O_5
.004520223 = " KNO_3
.001700345 = " N_2O_3
.003802710 = " $NaNO_3$
.003354202 = " $C_2H_5NO_2$

Each c.c. of CO_2
at N. T. P. ×

.004295710 = gms. $(NH_4)_2CO_3$
.001966246 = " CO_2
.004472344 = " $CaCO_3$
.003754330 = " $MgCO_3$
.004741327 = " Na_2CO_3
.00617646 = " K_2CO_3.

MOLECULAR WEIGHTS OF SOME OF THE FATTY ACIDS AND FATS.

Name.	Formula.	Molecular Weight.
Arachidic	$C_{20}H_{40}O_2$	311.3986
Behenic	$C_{22}H_{43}O_2$	338.3458
Butyric	$C_4H_8O_2$	87.8210
Caproic	$C_6H_{12}O_2$	115.7682
Caprylic	$C_8H_{16}O_2$	143.7154
Capric	$C_{10}H_{20}O_2$	171.6626
Cerotic	$C_{27}H_{54}O_2$	409.2138
Cocinic	$C_{11}H_{22}O_2$	185.6362
Glycerine	$C_3H_8O_3$	91.8107
Lauric	$C_{12}H_{24}O_2$	199.6098
Linoleic	$C_{16}H_{28}O_2$	251.5042
Margaric	$C_{17}H_{34}O_2$	269.4778
Melissic	$C_{30}H_{60}O_2$	451.1346
Myristic	$C_{14}H_{28}O_2$	227.5570
Myricin	$C_{46}H_{92}O_2$	674.7222
Œnanthylic	$C_7H_{14}O_2$	129.7418
Oleic	$C_{18}H_{34}O_2$	281.4514
Palmitic	$C_{16}H_{32}O_2$	255.5042
Pelargonic	$C_9H_{18}O_2$	157.6890
Ricinoleic	$C_{18}H_{34}O_3$	297.4147
Stearic	$C_{18}H_{36}O_2$	283.4514
Sylvic	$C_{20}H_{30}O_2$	301.3986
Valeric	$C_5H_{10}O_2$	101.7946

Molecular Weights of some of the Fatty Acids and Fats—*Continued.*

Name.	Formula.	Molecular Weight.
Abietic	$C_{44}H_{64}O_5$	670.6549
Plumbic oleate	$Pb(C_{18}H_{33}O_2)_2$	767.3738
" palmitate	$Pb(C_{16}H_{31}O_2)_2$	715.4794
" stearate	$Pb(C_{18}H_{35}O_2)_2$	771.3738
Tri-palmitine	$C_3H_5(O_2C_{16}H_{31})_3$	804.4334
Tri-stearin	$C_3H_5(O_2C_{18}H_{35})_3$	888.2750
Tri-olein	$C_3H_6(O_2C_{18}H_{33})_3$	882.2750
Oxalic acid + $2H_2O$	$C_2H_2O_4 + 2H_2O$	125.7270
Tartaric acid	$C_4H_6O_6$	149.6742
Acetic acid	$C_2H_4O_2$	59.8738
Citric acid	$C_6H_8O_7$	191.5847
Formic acid	CH_2O_2	45.9002
Uric acid	$C_5H_4N_4O_3$	167.8419
Lactic acid	$C_3H_6O_3$	89.8107

CONVERSION-FACTORS COMMONLY USED IN ANALYSIS.

FOUND.	Sought.	Log.	1	2	3	4	5	6	7	8	9
Al_2O_3	Al_2	$\bar{1}.724333$	.53007	1.06013	1.59020	2.12026	2 65033	3 18040	3.71046	4.24053	4.77059
“	Al_2SO_4	0.525224	3.35139	6.70277	10.05416	13.40554	16.75693	20.10831	23.45970	26.81108	30.16247
NH_4Cl	NH_3	$\bar{1}.503518$	.31880	.63760	.95640	1.27520	1.59400	1.91279	2.23159	2.55039	2.86919
$(NH_4)_2SO_4$	$2NH_3$	$\bar{1}.411838$	.25813	.51626	.77439	1.03252	1.29065	1.54878	1.80691	2.06504	2.32317
$(NH_4)_2PtCl_6$	$2NH_3$	$\bar{2}.885926$	.07690	.15380	.23070	.30760	.38450	.46140	.53830	.61520	.69210
“	$2N$	$\bar{2}.801749$	.06335	.12669	.19004	.25338	.31673	.38008	.44342	.50677	.57011
Sb_2O_4	Sb_2	$\bar{1}.897512$	.78979	1.57958	2.36938	3.15917	3.94896	4.73875	5.52854	6.31834	7.10813
Sb_2S_3	“	$\bar{1}.853887$	.71431	1.42862	2.14293	2.85724	3.57156	4.28587	5.00018	5.71449	6.42880
Sb_2O_4	Sb_2O_3	$\bar{1}.976556$	.94745	1.89489	2.84234	3.78979	4.73724	5.68468	6.63213	7.57958	8.52702
Sb_2S_3	“	$\bar{1}.932930$	.85690	1.71380	2.57070	3.42760	4.28450	5.14139	5.99829	6.85519	7.71209
“	$KSbO_7C_4H_4 + \frac{1}{2}H_2O$	0.295475	1.97458	3.94916	5.92374	7.89832	9.87290	11.84747	13.82205	15.79663	17.77121
$2NH_4MgAsO_4 + \frac{1}{2}H_2O$	As_2O_5	$\bar{1}.781899$	.60520	1.21040	1.81560	2.42080	3.02600	3.63119	4.23639	4.84159	5.44679
“	As_2	$\bar{1}.596443$	.39486	.78972	1.18458	1.57944	1.97430	2.36916	2.76402	3.15888	3.55374
$2NH_4MgAsO_4 + \frac{1}{2}H_2O$	As_2O_3	$\bar{1}.716888$	.52106	1.04213	1.56319	2.08425	2.60532	3.12638	3.64744	4.16850	4.68957
$Mg_2As_2O_7$	As_2O_5	$\bar{1}.870416$	.74202	1.48404	2.22605	2.96807	3.71009	4.45211	5.19413	5.93614	6.67816
“	As_2	$\bar{1}.684962$	.48413	.96826	1.45238	1.93651	2.42064	2.90477	3.38890	3.87302	4.35715
As_2S_3	As_2O_5	$\bar{1}.970509$	.93435	1.86870	2.80305	3.73740	4.67176	5.60611	6.54046	7.47481	8.40916
“	As_2	$\bar{1}.785052$	.60961	1.21923	1.82884	2.43846	3.04807	3.65768	4.26730	4.87691	5.48653
As_2S_3	As_2O_3	$\bar{1}.905504$	.80446	1.60891	2.41337	3.21783	4.02229	4.82674	5.63120	6.43566	7.24011
$BaCrO_4$	Ba	$\bar{1}.733494$	.54137	1.08273	1.62410	2.16547	2.70684	3.24820	3.78957	4.33094	4.87230
“	BaO	$\bar{1}.781439$	.60456	1.20911	1.81367	2.41822	3.02278	3.62733	4.23189	4.83645	5.44100
$BaSiFl_6$	Ba	$\bar{1}.690577$	.49043	.98086	1.47130	1.96173	2.45216	2.94259	3.43302	3.92346	4.41389

REESE LIBRARY OF THE UNIVERSITY OF CALIFORNIA

CONVERSION-FACTORS COMMONLY USED IN ANALYSIS.—*Continued.*

FOUND.	Sought.	Log.	1	2	3	4	5	6	7	8	9
$BaSiFl_6$	BaO	$\bar{1}.738526$	.54768	1.09535	1.64303	2.19070	2.73838	3.28606	3.83373	4.38141	4.92908
$BaSO_4$	Ba	$\bar{1}.769355$	.58797	1.17595	1.76392	2.35190	2.93987	3.52784	4.11582	4.70379	5.29177
"	BaO	$\bar{1}.817301$	.65660	1.31321	1.96981	2.62642	3.28302	3.93962	4.59623	5.25283	5.90944
"	S	$\bar{1}.138334$	.13751	.27501	.41252	.55002	.68753	.82504	.96254	1.10005	1.23755
"	SO_3	$\bar{1}.535800$	.34340	.68679	1.03019	1.37358	1.71698	2.06037	2.40377	2.74716	3.09056
"	SO_4	$\bar{1}.614929$	.41203	.82405	1.23608	1.64810	2.06013	2.47215	2.88418	3.29620	3.70823
"	H_2SO_4	$\bar{1}.623890$	.42062	.84125	1.26187	1.68249	2.10312	2.52374	2.94436	3.36498	3.78561
"	K_2SO_4	$\bar{1}.873628$	.74753	1.49506	2.24258	2.99011	3.73764	4.48517	5.23270	5.98022	6.72775
"	Na_2SO_4	$\bar{1}.785095$	.60977	1.21954	1.82932	2.43909	3.04886	3.65863	4.26840	4.87818	5.48795
"	$(NH_4)_2SO_4$	$\bar{1}.753568$	.56698	1.13396	1.70093	2.26791	2.83489	3.40187	3.96885	4.53582	5.10280
$2BaSO_4$	FeS_2	$\bar{1}.411114$	.25770	.51539	.77309	1.03079	1.28849	1.54618	1.80388	2.06158	2.31927
$BaCO_3$	Ba	$\bar{1}.842328$	.69555	1.39109	2.08664	2.78219	3.47774	4.17328	4.86883	5.56438	6.25992
"	BaO	$\bar{1}.890270$	.77673	1.55347	2.33020	3.10693	3.88367	4.66040	5.43713	6.21386	6.99060
"	CO_3	$\bar{1}.483516$	.30445	.60890	.91336	1.21781	1.52226	1.82671	2.13116	2.43562	2.74007
BiOCl	Bi	$\bar{1}.904007$	.80169	1.60338	2.40507	3.20676	4.00846	4.81015	5.61184	6.41353	7.21522
Bi_2O_3	Bi_2	$\bar{1}.952574$	.89655	1.79310	2.68965	3.58620	4.48276	5.37931	6.27586	7.17241	8.06896
Bi_2S_3	"	$\bar{1}.909679$	.81223	1.62445	2.43668	3.24890	4.06113	4.87336	5.68558	6.49781	7.31003
B_2O_3	B_2	$\bar{1}.496404$	.31362	.62724	.94086	1.25448	1.56811	1.88173	2.19535	2.50897	2.82259
CdO	Cd	$\bar{1}.942053$	.87509	1.75018	2.62527	3.50036	4.37545	5.25053	6.12562	7.00071	7.87580
CdS	CdO	$\bar{1}.948711$	.88861	1.77721	2.66582	3.55442	4.44303	5.33163	6.22024	7.10884	7.99745
"	Cd	$\bar{1}.890762$	.77761	1.55522	2.33283	3.11044	3.88805	4.66565	5.44326	6.22087	6.99848
CaO	Ca	$\bar{1}.854124$	.71470	1.42941	2.14411	2.85881	3.57352	4.28822	5.00292	5.71762	6.43233
"	$CaCO_3$	0.251538	1.78459	3.56917	5.35376	7.13834	8.92293	10.70752	12.49210	14.27669	16.06127
"	$CaSO_4$	0.385161	2.42751	4.85502	7.28253	9.71004	12.13755	14.56506	16.99257	19.42008	21.84759
"	$CaSO_4 + 2H_2O$	0.487081	3.06959	6.13918	9.20877	12.27836	15.34796	18.41755	21.48714	24.55673	27.62632
$CaCO_3$	Ca	$\bar{1}.602591$	.40049	.80097	1.20146	1.60194	2.00243	2.40292	2.80340	3.20389	3.60437

CONVERSION-FACTORS COMMONLY USED IN ANALYSIS.—*Continued.*

FOUND.	Sought.	Log.	1	2	3	4	5	6	7	8	9
$CaCO_3$	CaO	$\bar{1}.748460$	.56035	1.12071	1.68106	2.24141	2.80177	3.36212	3.92247	4.48282	5.04318
"	CO_2	$\bar{1}.643108$	.43965	.87929	1.31894	1.75858	2.19823	2.63788	3.07752	3.51717	3.95681
"	CO_3	$\bar{1}.777796$	.59951	1.19903	1.79854	2.39805	2.99757	3.59708	4.19659	4.79610	5.39562
"	$CaSO_4 + 2H_2O$	0.235543	1.72006	3.44011	5.16017	6.88023	8.60029	10.32034	12.04040	13.76046	15.48051
$CaSO_4$	Ca	$\bar{1}.468968$	.29442	.58884	.88325	1.17767	1.47209	1.76651	2.06093	2.35534	2.64976
"	CaO	$\bar{1}.614834$	.41194	.82389	1.23583	1.64778	2.05972	2.47166	2.88361	3.29555	3.70750
"	$CaCO_3$	$\bar{1}.866376$	.73515	1.47030	2.20545	2.94060	3.67575	4.41090	5.14605	5.88120	6.61635
CO_2	C	$\bar{1}.435765$	.27275	.54549	.81824	1.09098	1.36373	1.63647	1.90922	2.18196	2.45471
"	$CaCO_3$	0.356897	2.27456	4.54911	6.82367	9.09822	11.37278	13.64734	15.92189	18.19645	20.47100
"	Na_2CO_3	0.382262	2.41136	4.82273	7.23410	9.64547	12.05684	14.46820	16.87957	19.29094	21 70230
"	$NaHCO_3$	0.281097	1.91028	3.82055	5.73083	7.64110	9.55138	11.46166	13.37193	15.28221	17.19248
"	$MgCO_3$	0.280895	1.90939	3.81877	5.72816	7.63755	9.54694	11.45632	13.36571	15.27510	17.18448
"	K_2CO_3	0.497103	3.14125	6.28250	9.42375	12.56500	15.70625	18.84749	21.98874	25.12999	28.27124
"	MnO_2	$\bar{1}.990157$	.97759	1.95517	2.93276	3.91035	4.88794	5.86552	6.84311	7.82070	8.79828
Cl	NaCl	0.217539	1.65021	3.30042	4.95064	6.60085	8.25106	9.90127	11.55148	13.20170	14.85191
Cr_2O_3	Cr_2	$\bar{1}.835525$	.68474	1.36949	2.05423	2.73897	3.42372	4.10846	4.79320	5.47794	6.16269
CoO	Co	$\bar{1}.895826$	.78673	1.57346	2.36019	3.14692	3.93365	4.72038	5.50711	6.29384	7.08057
CuO	Cu	$\bar{1}.902155$	.79828	1.59656	2.39484	3.19312	3.99140	4.78968	5.58796	6.38624	7.18452
Cu_2S	Cu_2	$\bar{1}.901997$	.79799	1.59598	2.39397	3.19196	3.98996	4.78795	5.58594	6.38393	7.18192
$CaFl_2$	Fl_2	$\bar{1}.687556$	.48703	.97406	1.46109	1.94812	2.43516	2.92219	3.40922	3.89625	4.38328
Fe_2O_3	2FeO	$\bar{1}.954267$	.90005	1.80010	2.70015	3.60020	4.50026	5.40031	6.30036	7.20041	8.10046
"	Fe_2	$\bar{1}.845197$	.70016	1.40031	2.10047	2.80062	3.50078	4.20093	4.90109	5.60124	6.30140
2FeS	Fe_2O_3	$\bar{1}.958344$	.90854	1.81708	2.72562	3.63416	4.54270	5.45124	6.35978	7.26832	8.17686
FeS	Fe	$\bar{1}.803539$	.63612	1.27224	1.90836	2.54448	3.18060	3.81671	4.45283	5.08895	5.72507
$PbSO_4$	Pb	$\bar{1}.834408$	.68298	1.36596	2.04894	2.73192	3.41491	4.09789	4.78087	5.46385	6.14683
"	PbO	$\bar{1}.866754$	.73579	1.47157	2.20736	2.94314	3.67893	4.41472	5.15050	5.88629	6.62207

CONVERSION-FACTORS COMMONLY USED IN ANALYSIS.—*Continued.*

FOUND.	Sought.	Log.	1	2	3	4	5	6	7	8	9
Pbs	Pb	$\bar{1}.937453$	.86587	1.73174	2.59761	3.46348	4.32935	5.19521	6.06108	6.92695	7.79282
"	PbO	$\bar{1}.969794$	.93281	1.86563	2.79844	3.73126	4.66407	5.59688	6.52970	7.46251	8.39533
$PbCrO_4$	Pb	$\bar{1}.806553$	.64055	1.28110	1.92165	2.56220	3.20276	3.84331	4.48386	5.12441	5.76496
"	PbO	$\bar{1}.838899$	.69008	1.38015	2.07023	2.76030	3.45038	4.14045	4.83053	5.52060	6.21068
$Mg_2P_2O_7$	Mg_2	$\bar{1}.334977$	.21626	.43252	.64877	.86503	1.08129	1.29755	1.51381	1.73006	1.94632
"	2MgO	$\bar{1}.556724$	.36035	.72069	1.08104	1.44138	1.80173	2.16208	2.52242	2.88277	3.24311
"	$2MgCO_3$	$\bar{1}.878860$	.75659	1.51318	2.26977	3.02636	3.78295	4.53954	5.29613	6.05272	6.80931
"	P_2O_5	$\bar{1}.805942$	.63965	1.27931	1.91896	2.55861	3.19827	3.83792	4.47757	5.11722	5.75688
"	P_2	$\bar{1}.446273$	.27943	.55887	.83830	1.11773	1.39717	1.67660	1.95603	2.23546	2.51490
"	$Ca_3P_2O_8$	0.145264	1.39722	2.79444	4.19167	5.58889	6.98611	8.38333	9.78055	11.17778	12.57500
$MgSO_4$	Mg	$\bar{1}.301030$	.20000	.39999	.59999	.79999	.99999	1.19998	1.39998	1.59998	1.79997
"	MgO	$\bar{1}.522770$	.33325	.66650	.99975	1.33300	1.66626	1.99951	2.33276	2.66601	2.99926
Mn_3O_4	3Mn	$\bar{1}.855477$	.71693	1.43385	2.15078	2.86770	3.58463	4.30156	5.01848	5.73541	6.45233
"	3MnO	$\bar{1}.968123$	.92923	1.85846	2.78769	3.71692	4.64616	5.57539	6.50462	7.43385	8.36308
$Mn_2P_2O_7$	Mn_2	$\bar{1}.583233$	.38303	.76606	1.14909	1.53212	1.91515	2.29818	2.68121	3.06424	3.44727
"	2MnO	$\bar{1}.695884$	.49646	.99292	1.48937	1.98583	2.48229	2.97875	3.47521	3.97166	4.46812
$MnSO_4$	Mn	$\bar{1}.556291$	.35999	.71999	1.07997	1.43996	1.79995	2.15993	2.51992	2.87991	3.23990
"	MnO	$\bar{1}.668936$	.46659	.93319	1.39978	1.86638	2.33297	2.79956	3.26616	3.73275	4.19935
MnS	Mn	$\bar{1}.797697$	.62762	1.25523	1.88285	2.51046	3.13808	3.76570	4.39331	5.02093	5.64854
"	MnO	$\bar{1}.910341$	.81347	1.62695	2.44042	3.25390	4.06737	4.88084	5.69432	6.50779	7.32127
HgS	Hg	$\bar{1}.935487$	.86196	1.72391	2.58587	3.44783	4.30979	5.17174	6.03370	6.89566	7.75761
"	HgO	$\bar{1}.968880$	.93085	1.86171	2.79256	3.72342	4.65427	5.58512	6.51598	7.44683	8.37769
Hg_2Cl_2	Hg_2	$\bar{1}.946201$	.84954	1.69908	2.54862	3.39816	4.24771	5.09725	5.94679	6.79633	7.64587
"	Hg_2O	$\bar{1}.946201$	.88349	1.76699	2.65048	3.53398	4.41747	5.30096	6.18446	7.06795	7.95145
NiO	Ni	$\bar{1}.894294$	.78396	1.56792	2.35189	3.13585	3.91981	4.70377	5.48773	6.27170	7.05566
N	NH_3	0.084203	1.21396	2.42793	3.64189	4.85586	6.06982	7.28378	8.49775	9.71171	10.92568

CONVERSION-FACTORS COMMONLY USED IN ANALYSIS.—*Continued.*

FOUND.	Sought.	Log.	1	2	3	4	5	6	7	8	9
$U_2P_2O_{11}$	P_2	$\bar{2}.937814$	.08666	.17332	.25998	.34664	.43330	.51996	.60661	.69327	.77993
"	P_2O_5	$\bar{1}.297477$	.19837	.39674	.59512	.79349	.99186	1.19023	1.38860	1.58698	1.78535
P_2O_5	$Ca_3P_2O_8$	0.339320	2.18434	4.36869	6.55303	8.73737	10.92172	13.10606	15.29040	17.47474	19.65909
K_2PtCl_6	K_2	$\bar{1}.206853$	.16101	.32202	.48303	.64404	.80506	.96607	1.12708	1.28809	1.44910
"	K_2O	$\bar{1}.287691$	.19395	.38789	.58184	.77579	.96974	1.16368	1.35763	1.55158	1.74552
"	2KCl	$\bar{1}.487096$	.30697	.61393	.92090	1.22786	1.53483	1.84179	2.14876	2.45572	2.76269
"	K_2SO_4	$\bar{1}.554792$	.35875	.71749	1.07624	1.43499	1.79374	2.15248	2.51123	2.86998	3.22872
K_2	K_2O	0.080828	1.20456	2.40912	3.61367	4.81823	6.02279	7.22735	8.43191	9.63646	10.84102
K	KCl	0.280232	1.90648	3.81296	5.71944	7.62592	9.53241	11.43889	13.34537	15.25185	17.15833
K_2O	2KCl	0.199404	1.58272	3.16544	4.74817	6.33089	7.91361	9.49633	11.07905	12.66178	14.24450
"	K_2SO_4	0.267104	1.84971	3.69942	5.54913	7.39884	9.24855	11.09826	12.94797	14.79768	16.64739
KCl	K	$\bar{1}.719770$	.52453	1.04905	1.57358	2.09810	2.62263	3.14716	3.67168	4.19621	4.72073
2KCl	K_2O	$\bar{1}.800594$	.63182	1.26364	1.89547	2.52729	3.15911	3.78093	4.42275	5.05458	5.68640
K_2SO_4	K_2	$\bar{1}.652072$	.44882	.89763	1.34645	1.79526	2.24408	2.69290	3.14171	3.59053	4.03934
Pt	$2NH_3$	$\bar{1}.243286$	.17510	.35020	.52530	.70040	.87550	1.05059	1.22569	1.40079	1.57589
"	2N	$\bar{1}.159086$	.14424	.28847	.43271	.57695	.72119	.86542	1.00966	1.15390	1.29813
SiO_2	Si	$\bar{1}.671145$	.46897	.93793	1.40690	1.87586	2.34483	2.81380	3.28276	3.75173	4.22069
AgBr	Br	$\bar{1}.628961$	.42556	.85112	1.27667	1.70223	2.12779	2.55335	2.97891	3.40446	3.83002
AgI	I	$\bar{1}.732643$	.54031	1.08061	1.62092	2.16122	2.70153	3.24184	3.78214	4.32245	4.86275
AgCl	Ag	$\bar{1}.876645$	.75274	1.50547	2.25821	3.01094	3.76368	4.51641	5.26915	6.02188	6.77462
"	Cl	$\bar{1}.393154$	.24726	.49453	.74179	.98906	1.23632	1.48358	1.73085	1.97811	2.22538
"	HCl	$\bar{1}.405279$	.25426	.50851	.76277	1.01702	1.27128	1.52553	1.77979	2.03404	2.28830
"	NaCl	$\bar{1}.610702$	.40804	.81608	1.22412	1.63216	2.04020	2.44823	2.85627	3.26431	3.67235
2AgCl	Ag_2O	$\bar{1}.907696$	.80853	1.61707	2.42560	3.23413	4.04267	4.85120	5.65973	6.46826	7.27680
Na_2	Na_2O	0.129387	1.34706	2.69412	4.04117	5.38823	6.73529	8.08235	9.42941	10.77646	12.12352
Na	NaCl	0.404484	2.53796	5.07592	7.61388	10.15184	12.68980	15.22775	17.76571	20.30367	22.84163

CONVERSION-FACTORS COMMONLY USED IN ANALYSIS.—*Continued.*

FOUND.	Sought.	Log.	1	2	3	4	5	6	7	8	9
Na_2O	$2NaCl$	0.275099	1.88408	3.76815	5.65223	7.53630	9.42038	11.30445	13.18853	15.07260	16.95668
Na_2SO_4	Na_2	$\bar{1}.510947$	.32430	.64859	.97289	1.29718	1.62148	1.94578	2.27007	2.59437	2.91866
"	Na_2O	$\bar{1}.640333$	.43685	.87369	1.31054	1.74738	2.18423	2.62108	3.05792	3.49477	3.93161
$2NaCl$	"	$\bar{1}.724898$	.53076	1.06153	1.59229	2.12306	2.65382	3.18458	3.71535	4.24611	4.77688
Na_2O	CO_2	$\bar{1}.850358$	.70853	1.41706	2.12560	2.83413	3.54266	4.25119	4.95972	5.66826	6.37679
$SrCO_3$	Sr	$\bar{1}.773363$	.59342	1.18684	1.78027	2.37369	2.96711	3.56053	4.15395	4.74738	5.34080
$SrSO_4$	"	$\bar{1}.678427$	.47690	.95381	1.43071	1.90761	2.38452	2.86142	3.33832	3.81522	4.29213
SnO_2	Sn	$\bar{1}.895765$	.78662	1.57324	2.35986	3.14648	3.93311	4.71973	5.50635	6.29297	7.07959
H_2O	H_2	$\bar{1}.046651$	.11134	.22268	.33401	.44535	.55669	.66803	.77937	.89070	1.00204
"	O	$\bar{1}.948735$	.88866	1.77732	2.66598	3.55464	4.44331	5.33197	6.22063	7.10929	7.99795
ZnO	Zn	$\bar{1}.904499$	.80260	1.60520	2.40780	3.21040	4.01300	4.81560	5.61820	6.42080	7.22340
ZnS	"	$\bar{1}.826004$	.66989	1.33978	2.00966	2.67955	3.34944	4.01933	4.68922	5.35910	6.02899
"	ZnO	$\bar{1}.921504$	.83465	1.66930	2.50394	3.33859	4.17324	5.00789	5.84254	6.67718	7.51183

It has been carefully determined that the atomic weight of Platinum should be taken as 197.18, while really it is 194.415, since the factor obtained from 197.18 gives more correct results in calculations. (*Vide* Fresenius, *Zeitsch. für Analyt. Chem.*, XXI, 1882, p. 234.)

CONVERSION FACTORS COMMONLY USED IN ANALYSIS.—*Continued.*

FOUND.	Sought.	Log.	1	2	3	4	5	6	7	8	9
Acetic acid	$Ca\overline{Ac}$	0.119668	1.31725	2.63450	3.95175	5.26900	6.58625	7.90350	9.22075	10.53800	11.85525
$2AlPO_4$	Al_2O_3	$\bar{1}.621458$	.41827	.83654	1.25481	1.67308	2.09136	2.50963	2.92790	3.34617	3.76444
"	Al	$\bar{1}.345790$	.22171	.44342	.66514	.88685	1.10856	1.33027	1.55198	1.77370	1.99541
$NH_3 12MoO_3 PO_4$	P_2	$\bar{2}.212188$	.01630	.03260	.04890	.06520	.08150	.09780	.11410	.13040	.14670
"	P_2O_5	$\bar{2}.572291$	.03735	.07470	.11205	.14940	.18675	.22410	.26145	.29880	.33615
NH_3	NH_4Cl	0.496483	3.13677	6.27354	9.41032	12.54709	15.68386	18.82063	21.95740	25.09418	28.23095
"	NH_4NO_3	0.697968	4.98848	9.97696	14.96543	19.95391	24.94239	29.93087	34.91935	39.90782	44.89630
$2NH_3$	NH_4SO_4	0.588162	3.87401	7.74803	11.62204	15.49606	19.37007	23.24408	27.11810	30.99211	34.86613
As_2	$FeAs_2$	0.137722	1.37316	2.74632	4.11948	5.49264	6.86381	8.23897	9.61213	10.98529	12.35845
$BaSO_4$	$CaSO_4$	$\bar{1}.766375$	.58395	1.16790	1.75185	2.33580	2.91976	3.50371	4.08766	4.67161	5.25556
CdS	S	$\bar{1}.347115$	.22239	.44478	.66717	.88956	1.11195	1.33434	1.55673	1.77912	2.00151
$2CO_2$	Oxalic $\overline{Ac}$	0.155932	1.43196	2.86393	4.29589	5.72785	7.15982	8.59178	10.02374	11.45570	12.88767
Cr_2O_3	$2PbCrO_4$	0.627754	4.24380	8.48759	12.73139	16.97519	21 21899	25.46278	29.70658	33.95038	38.19417
FeO	Fe_2O_3	0.045733	1.11105	2.22209	3.33314	4.44419	5.55524	6.66628	7.77733	8.88838	9.99942
"	Fe	$\bar{1}.890930$	.77790	1.55581	2.33372	3.11162	3.88953	4.66743	5.44534	6.22324	7.00115
Fe	F_2O_3	0.154804	1.42825	2.85651	4.28476	5.71401	7.14127	8.56952	9.99777	11.42602	12.85428
"	FeO	0.109072	1.28550	2.57100	3.85651	5.14201	5.42751	7.71301	8.99851	10.28402	11.56952
2Cu	Cu_2S	0.098002	1.25315	2.50629	3.75944	5.01258	6.26573	7.51888	8.77202	10.02517	11.27831
$PbSO_4$	PbS	$\bar{1}.896957$	.78878	1.57756	2.36634	3.15512	3.94391	4.73269	5.52147	6.31025	7.09903
$3PbSO_4$	$2PbCO_3$ & $Pb(OH)_2$	$\bar{1}.930643$	.85240	1.70481	2.55721	3.40962	4.25202	5.11442	5.96683	6.81923	7.67162
PbO_2	Pb	0.937558	.86608	1.73216	2.59823	3.46431	4.33039	5.19647	6.06255	6.92862	7.79470
Li_2SO_4	Li_2O	$\bar{1}.435988$	.27289	.54579	.81868	1.09158	1.36447	1.63736	1.91026	2.18315	2.45605
$2Li_3PO_4$	$3Li_2O$	$\bar{1}.589056$	.38820	.77641	1.16461	1.55281	1.94102	2.32922	2.71742	3.10562	3.49383

CONVERSION-FACTORS COMMONLY USED IN ANALYSIS.—*Continued.*

FOUND.	Sought.	Log.	1	2	3	4	5	6	7	8	9
$PbCrO_4$	Cr	$\bar{1}.207769$	.16135	.32270	.48405	.64540	.80676	.96811	1.12946	1.29081	1.45216
$Mg_2P_2O_7$	$2MgSO_4$	0.033948	1.08130	2.16261	3.24391	4.32522	5.40652	6.48782	7.56913	8.65043	9.73174
MgO	Mg	$\bar{1}.778253$	.60014	1.20028	1.80042	2.40056	3.00070	3.60084	4.20098	4.80112	5.40126
MgO	$MgCO_3$	0.312144	2.09964	4.19928	6.29892	8.39856	10.49821	12.59785	14.69749	16.79713	18.89677
MnO_2	Mn	$\bar{1}.797985$	.62804	1.25607	1.88411	2.51214	3.14018	3.76822	4.39625	5.02429	5.65232
MnO	"	$\bar{1}.887347$	.77153	1.54305	2.31458	3.08610	3.85763	4.62916	5.40068	6.17221	6.94373
Mn	MnO	0.112649	1.29613	2.59226	3.88840	5.18453	6.48066	7.77679	9.07292	10.36906	11.66519
2N	$(NH_4)_2SO_4$	0.672367	4.70292	9.40583	14.10875	18.81167	23.51459	28.21750	32.92042	37.62334	43.32625
Ni_2S	Ni_2	$\bar{1}.894126$	.78366	1.56732	2.35097	3.13463	3.91829	4.70195	5.48561	6.26926	7.05292
PdI_2	2I	$\bar{1}.848405$	.70535	1.41069	2.11604	2.82138	3.52673	4.23207	4.93742	5.64276	6.34811
Pd	2I	0.379090	2.39381	4.78761	7.18142	9.51523	11.96903	14.36284	16.75664	19.15045	21.54425
P_2O_5	P_2	$\bar{1}.640333$	.43685	.87370	1.31055	1.74740	2.18426	2.62111	3.05796	3.49481	3.93166
K_2O	$2KNO_3$	0.321916	2.14741	4.29483	6.44224	8.58966	10.73707	12.88448	15.03190	17.17931	19.32673
K_2SO_4	K_2O	$\bar{1}.732896$	.54063	1.08125	1.62188	2.16250	2.70313	3.24375	3.78438	4.32500	4.86563
AgCn	Cn	$\bar{1}.288851$	.19447	.38891	.58341	.77788	.97235	1.16681	1.36128	1.55575	1.75022
Na_2O	Na_2CO_3	0.232623	1.70853	3.41706	5.12560	6.83413	8.54266	10.25119	11.95972	13.66826	15.37679
TiO_2	Ti	$\bar{1}.785543$	.61030	1.22060	1.83090	2.44120	3.05150	3.66180	4.27210	4.88240	5.49270
V_2O_5	V_2	$\bar{1}.749919$	.56224	1.12447	1.68671	2.24895	2.81119	3.37342	3.93566	4.49790	5.06013
WO_3	W	$\bar{1}.899346$	.79313	1.58626	2.37940	3.17253	3.96566	4.75879	5.55192	6.34506	7.13819
$Zn_2P_2O_7$	2Zn	$\bar{1}.631190$	.42775	.85550	1.28325	1.71100	2.13876	2.56651	2.99426	3.42201	3.84976
$ZnNH_4PO_4$	Zn	$\bar{1}.562495$	.36517	.73034	1.09552	1.46069	1.82586	2.19103	2.55620	2.92138	3.28655

THE WEIGHT OF ONE CUBIC CENTIMETRE OF CARBONIC ACID IN MILLIGRAMS FOR THE VARIATIONS OF TEMPERATURE AND PRESSURE.

Degrees		720 mm. 28.35 inches.	722 mm. 28.42 inches.	724 mm. 28.50 inches.	726 mm. 28.58 inches.	728 mm. 28.66 inches.	730 mm. 28.74 inches.	732 mm. 28.82 inches.	734 mm. 28.90 inches.	736 mm. 28.98 inches.	738 mm. 29.06 inches.	740 mm. 29.13 inches.	742 mm. 29.21 inches.	744 mm. 29.29 inches.
Fahr.	Cent.													
50	10	1.77446	1.77945	1.78445	1.78944	1.79443	1.79942	1.80441	1.80941	1.81440	1.81940	1.82438	1.82937	1.83437
51.8	11	1.76668	1.77165	1.77622	1.78160	1.78657	1.79155	1.79652	1.80149	1.80647	1.81144	1.81642	1.82139	1.82636
53.6	12	1.75881	1.76377	1.76873	1.77368	1.77864	1.78359	1.78855	1.79351	1.79846	1.80342	1.80838	1.81333	1.81829
55.4	13	1.75092	1.75587	1.76081	1.76576	1.77070	1.77565	1.78059	1.78554	1.79048	1.79543	1.80037	1.80532	1.81026
57.2	14	1.74301	1.74795	1.75288	1.75781	1.76275	1.76768	1.77261	1.77754	1.78248	1.78741	1.79234	1.79728	1.80221
59	15	1.73502	1.73993	1.74484	1.74974	1.75465	1.75955	1.76446	1.76937	1.77427	1.77918	1.78408	1.78899	1.79390
60.8	16	1.72699	1.73188	1.73677	1.74166	1.74655	1.75144	1.75633	1.76122	1.76611	1.77100	1.77590	1.78078	1.78567
62.6	17	1.71888	1.72376	1.72862	1.73349	1.73836	1.74322	1.74809	1.75296	1.75783	1.76269	1.76756	1.77243	1.77729
64.4	18	1.71069	1.71554	1.72040	1.72525	1.73011	1.73497	1.73982	1.74468	1.74953	1.75439	1.75925	1.76410	1.76896
66.2	19	1.70239	1.70723	1.71207	1.71691	1.72175	1.72659	1.73143	1.73627	1.74111	1.74595	1.75078	1.75562	1.76046
68	20	1.69412	1.69894	1.70377	1.70859	1.71341	1.71823	1.72305	1.72788	1.73270	1.73725	1.74234	1.74716	1.75199
69.8	21	1.68571	1.69051	1.69532	1.70012	1.70493	1.70974	1.71454	1.71935	1.72415	1.72896	1.73377	1.73857	1.74338
71.6	22	1.67722	1.68201	1.68680	1.69151	1.69638	1.70117	1.70596	1.71075	1.71554	1.72033	1.72512	1.72991	1.73470
73.4	23	1.66862	1.67340	1.67817	1.68294	1.68772	1.69249	1.69727	1.70204	1.70681	1.71159	1.71636	1.72114	1.72591
75.2	24	1.65994	1.66470	1.66945	1.67421	1.67897	1.68372	1.68848	1.69324	1.69799	1.70275	1.70751	1.71227	1.71702
77	25	1.65113	1.65587	1.66061	1.66535	1.67009	1.67484	1.67958	1.68432	1.68906	1.69380	1.69854	1.70329	1.70803

WEIGHT OF CARBONIC ACID AT VARYING TEMPERATURES AND PRESSURES—*Continued.*

Degrees Fahr.	Degrees Cent.	746 mm. 29.37 inches.	748 mm. 29.45 inches.	750 mm. 29.53 inches.	752 mm. 29.61 inches.	754 mm. 29.69 inches.	756 mm. 29.76 inches.	758 mm. 29.84 inches.	760 mm. 29.92 inches.	762 mm. 30.00 inches.	764 mm. 30.08 inches.	766 mm. 30.16 inches.	768 mm. 30.24 inches.	770 mm. 30.32 inches.
50	10	1.83936	1.84435	1.84934	1.85433	1.85933	1.86432	1.86931	1.87430	1.87930	1.88429	1.88928	1.89427	1.89926
51.8	11	1.83134	1.83631	1.84129	1.84626	1.85123	1.85621	1.86118	1.86616	1.87113	1.87610	1.88108	1.88605	1.89103
53.6	12	1.82324	1.82820	1.83315	1.83811	1.84307	1.84802	1.85298	1.85793	1.86289	1.86785	1.87280	1.87776	1.88271
55.4	13	1.81521	1.82015	1.82510	1.83004	1.83499	1.83993	1.84488	1.84982	1.85477	1.85971	1.86466	1.86960	1.87455
57.2	14	1.80714	1.81208	1.81701	1.82194	1.82687	1.83181	1.83674	1.84167	1.84661	1.85154	1.85647	1.86141	1.86634
59	15	1.79880	1.80371	1.80861	1.81352	1.81843	1.82333	1.82824	1.83314	1.83805	1.84296	1.84786	1.85277	1.85767
60.8	16	1.79056	1.79545	1.80034	1.80523	1.81012	1.81501	1.81990	1.82479	1.82968	1.83457	1.83946	1.84435	1.84924
62.6	17	2.78216	1.78703	1.79189	1.79676	1.80163	1.80650	1.81136	1.81623	1.82110	1.82596	1.83083	1.83570	1.84056
64.4	18	1.77381	1.77867	1.78353	1.78838	1.79324	1.79809	1.80295	1.80781	1.81266	1.81752	1.82237	1.82723	1.83209
66.2	19	1.76530	1.77014	1.77498	1.77982	1.78466	1.78950	1.79434	1.79917	1.80401	1.80885	1.81369	1.81853	1.82337
68	20	1.75681	1.76113	1.76645	1.77127	1.77610	1.78092	1.78574	1.79056	1.79538	1.80021	1.80503	1.80985	1.81467
69.8	21	1.74818	1.75299	1.75780	1.76260	1.76741	1.77221	1.77702	1.78183	1.78663	1.79144	1.79624	1.80105	1.80586
71.6	22	1.73949	1.74428	1.74907	1.75386	1.75865	1.76344	1.76823	1.77302	1.77781	1.78260	1.78739	1.79218	1.79697
73.4	23	1.73068	1.73546	1.74023	1.74501	1.74978	1.75455	1.75933	1.76410	1.76888	1.77365	1.77842	1.78320	1.78797
75.2	24	1.72178	1.72654	1.73129	1.73605	1.74081	1.74556	1.75032	1.75508	1.75984	1.76459	1.76935	1.77411	1.77886
77	25	1.71277	1.71751	1.72225	1.72699	1.73173	1.73648	1.74122	1.74596	1.75070	1.75544	1.76018	1.76492	1.76967

WEIGHT OF 1 C.C. OF NITROGEN IN MILLIGRAMS FOR VARIATIONS OF TEMPERATURE AND PRESSURE.

Degrees		726 mm. 28.58 inches.	727 mm. 28.62 inches.	728 mm. 28.66 inches.	729 mm. 28.70 inches.	730 mm. 28.74 inches.	731 mm. 28.78 inches.	732 mm. 28.82 inches.	733 mm. 28.86 inches.	734 mm. 28.90 inches.
Fahr.	Cent.									
32	0	1.1927	1.1944	1.1960	1.1977	1.1993	1.2010	1.2026	1.2043	1.2059
33.8	1	1.1879	1.1895	1.1912	1.1928	1.1945	1.1961	1.1978	1.1994	1.2011
35.6	2	1.1829	1.1846	1.1862	1.1879	1.1895	1.1911	1.1928	1.1944	1.1961
37.4	3	1.1781	1.1797	1.1814	1.1830	1.1846	1.1863	1.1879	1.1895	1.1912
39.2	4	1.1731	1.1748	1.1764	1.1780	1.1797	1.1813	1.1829	1.1845	1.1862
41	5	1.1682	1.1698	1.1714	1.1731	1.1747	1.1763	1.1779	1.1796	1.1812
42.8	6	1.1632	1.1649	1.1665	1.1681	1.1697	1.1713	1.1729	1.1746	1.1762
44.6	7	1.1583	1.1599	1.1615	1.1631	1.1647	1.1664	1.1680	1.1696	1.1712
46.4	8	1.1533	1.1549	1.1566	1.1582	1.1598	1.1614	1.1630	1.1646	1.1662
48.2	9	1.1484	1.1500	1.1516	1.1532	1.1548	1.1564	1.1580	1.1596	1.1612
50	10	1.1433	1.1449	1.1465	1.1481	1.1497	1.1513	1.1529	1.1545	1.1561
51.8	11	1.1384	1.1400	1.1416	1.1432	1.1448	1.1463	1.1479	1.1495	1.1511
53.6	12	1.1332	1.1348	1.1364	1.1380	1.1396	1.1412	1.1427	1.1443	1.1459
55.4	13	1.1282	1.1298	1.1314	1.1329	1.1345	1.1361	1.1377	1.1392	1.1408
57.2	14	1.1231	1.1247	1.1263	1.1279	1.1294	1.1310	1.1326	1.1342	1.1357
59	15	1.1180	1.1196	1.1211	1.1227	1.1243	1.1258	1.1274	1.1290	1.1305
60.8	16	1.1128	1.1144	1.1160	1.1175	1.1191	1.1207	1.1222	1.1238	1.1253
62.6	17	1.1077	1.1092	1.1108	1.1124	1.1139	1.1155	1.1170	1.1186	1.1201
64.4	18	1.1023	1.1039	1.1054	1.1070	1.1085	1.1101	1.1116	1.1132	1.1147
66.2	19	1.0971	1.0986	1.1002	1.1017	1.1033	1.1048	1.1064	1.1079	1.1095
68	20	1.0917	1.0933	1.0948	1.0964	1.0979	1.0994	1.1010	1.1025	1.1041
69.8	21	1.0863	1.0878	1.0894	1.0909	1.0924	1.0940	1.0955	1.0970	1.0986
71.6	22	1.0808	1.0824	1.0839	1.0854	1.0869	1.0885	1.0900	1.0915	1.0931
73.4	23	1.0753	1.0768	1.0783	1.0799	1.0814	1.0829	1.0844	1.0860	1.0875
75.2	24	1.0697	1.0712	1.0728	1.0743	1.0758	1.0773	1.0788	1.0804	1.0819
77	25	1.0640	1.0655	1.0670	1.0685	1.0700	1.0715	1.0731	1.0746	1.0761
78.8	26	1.0583	1.0598	1.0613	1.0628	1.0644	1.0659	1.0674	1.0689	1.0704
80.6	27	1.0526	1.0541	1.0556	1.0571	1.0586	1.0601	1.0616	1.0631	1.0646
82.4	28	1.0467	1.0482	1.0497	1.0512	1.0527	1.0542	1.0557	1.0572	1.0587
84.2	29	1.0406	1.0421	1.0436	1.0451	1.0466	1.0481	1.0496	1.0511	1.0526
86	30	1.0347	1.0362	1.0377	1.0392	1.0407	1.0421	1.0436	1.0451	1.0466
87.8	31	1.0285	1.0300	1.0315	1.0329	1.0344	1.0359	1.0374	1.0389	1.0404
89.6	32	1.0222	1.0237	1.0251	1.0266	1.0281	1.0296	1.0311	1.0325	1.0340
91.4	33	1.0159	1.0174	1.0188	1.0203	1.0218	1.0233	1.0247	1.0262	1.0277
93.2	34	1.0093	1.0107	1.0122	1.0137	1.0152	1.0166	1.0181	1.0196	1.0210
95	35	1.0028	1.0042	1.0057	1.0072	1.0086	1.0101	1.0116	1.0130	1.0145

NITROGEN TABLE—*Continued.*

Degrees		735 mm. 28.94 inches.	736 mm. 28.98 inches.	737 mm. 29.02 inches.	738 mm. 29.06 inches.	739 mm. 29.09 inches.	740 mm. 29.13 inches.	741 mm. 29.17 inches.	742 mm. 29.21 inches.	743 mm. 29.25 inches.
Fahr.	Cent.									
32	0	1.2076	1.2092	1.2109	1.2125	1.2142	1.2158	1.2175	1.2192	1.2208
33.8	1	1.2027	1.2043	1.2060	1.2076	1.2093	1.2109	1.2126	1.2142	1.2159
35.6	2	1.1977	1.1993	1.2010	1.2026	1.2043	1.2059	1.2075	1.2092	1.2108
37.4	3	1.1928	1.1944	1.1961	1.1977	1.1993	1.2010	1.2025	1.2041	1.2058
39.2	4	1.1878	1.1894	1.1911	1.1927	1.1943	1.1959	1.1976	1.1992	1.2008
41	5	1.1828	1.1844	1.1860	1.1877	1.1893	1.1909	1.1925	1.1942	1.1958
42.8	6	1.1778	1.1794	1.1810	1.1827	1.1843	1.1859	1.1875	1.1891	1.1907
44.6	7	1.1728	1.1744	1.1760	1.1776	1.1792	1.1809	1.1825	1.1841	1.1857
46.4	8	1.1678	1.1694	1.1710	1.1726	1.1742	1.1758	1.1774	1.1790	1.1807
48.2	9	1.1628	1.1644	1.1660	1.1676	1.1692	1.1708	1.1724	1.1740	1.1756
50	10	1.1577	1.1593	1.1609	1.1625	1.1641	1.1657	1.1673	1.1689	1.1705
51.8	11	1.1527	1.1543	1.1559	1.1575	1.1591	1.1606	1.1622	1.1638	1.1654
53.6	12	1.1475	1.1491	1.1507	1.1523	1.1538	1.1554	1.1570	1.1586	1.1602
55.4	13	1.1424	1.1440	1.1456	1.1471	1.1487	1.1503	1.1519	1.1534	1.1550
57.2	14	1.1373	1.1389	1.1404	1.1420	1.1436	1.1452	1.1467	1.1483	1.1499
59	15	1.1321	1.1337	1.1352	1.1368	1.1384	1.1399	1.1415	1.1431	1.1446
60.8	16	1.1269	1.1285	1.1300	1.1316	1.1331	1.1347	1.1363	1.1378	1.1394
62.6	17	1.1217	1.1233	1.1248	1.1264	1.1279	1.1295	1.1310	1.1326	1.1342
64.4	18	1.1163	1.1179	1.1194	1.1210	1.1225	1.1241	1.1256	1.1272	1.1287
66.2	19	1.1110	1.1125	1.1141	1.1156	1.1172	1.1187	1.1203	1.1218	1.1234
68	20	1.1056	1.1071	1.1087	1.1102	1.1118	1.1133	1.1148	1.1164	1.1179
69.8	21	1.1001	1.1016	1.1032	1.1047	1.1062	1.1078	1.1093	1.1108	1.1124
71.6	22	1.0946	1.0961	1.0977	1.0992	1.1007	1.1023	1.1038	1.1053	1.1068
73.4	23	1.0890	1.0905	1.0921	1.0936	1.0951	1.0966	1.0982	1.0997	1.1012
75.2	24	1.0834	1.0849	1.0864	1.0880	1.0895	1.0910	1.0925	1.0940	1.0956
77	25	1.0776	1.0791	1.0806	1.0821	1.0837	1.0852	1.0867	1.0882	1.0897
78.8	26	1.0719	1.0734	1.0749	1.0764	1.0779	1.0794	1.0810	1.0825	1.0840
80.6	27	1.0661	1.0676	1.0691	1.0706	1.0721	1.0736	1.0751	1.0766	1.0781
82.4	28	1.0602	1.0617	1.0632	1.0647	1.0662	1.0677	1.0692	1.0707	1.0722
84.2	29	1.0541	1.0556	1.0571	1.0586	1.0601	1.0616	1.0631	1.0646	1.0661
86	30	1.0481	1.0496	1.0511	1.0526	1.0541	1.0555	1.0570	1.0585	1.0600
87.8	31	1.0419	1.0433	1.0448	1.0463	1.0478	1.0493	1.0508	1.0522	1.0537
89.6	32	1.0355	1.0370	1.0385	1.0399	1.0414	1.0429	1.0444	1.0459	1.0473
91.4	33	1.0292	1.0306	1.0321	1.0336	1.0351	1.0365	1.0380	1.0395	1.0410
93.2	34	1.0225	1.0240	1.0254	1.0269	1.0284	1.0299	1.0313	1.0328	1.0343
95	35	1.0160	1.0174	1.0189	1.0204	1.0218	1.0233	1.0248	1.0262	1.0277

NITROGEN TABLE—*Continued.*

Degrees		753 mm. 29.65 inches.	754 mm. 29.69 inches.	755 mm. 29.72 inches.	756 mm. 29.76 inches.	757 mm. 29.80 inches.	758 mm. 29.84 inches.	759 mm. 29.88 inches.	760 mm. 29.92 inches.	761 mm. 29.96 inches.
Fahr.	Cent.									
32	0	1.2373	1.2390	1.2406	1.2423	1.2440	1.2456	1.2473	1.2489	1.2506
33.8	1	1.2324	1.2340	1.2356	1.2373	1.2389	1.2406	1.2422	1.2439	1.2455
35.6	2	1.2272	1.2289	1.2305	1.2322	1.2338	1.2355	1.2371	1.2387	1.2404
37.4	3	1.2221	1.2238	1.2254	1.2270	1.2287	1.2303	1.2320	1.2336	1.2352
39.2	4	1.2171	1.2188	1.2204	1.2220	1.2237	1.2253	1.2269	1.2285	1.2302
41	5	1.2120	1.2137	1 2153	1.2169	1.2185	1.2202	1.2218	1.2234	1.2250
42.8	6	1.2069	1.2085	1.2102	1.2118	1.2134	1.2150	1.2166	1.2182	1.2199
44.6	7	1.2018	1.2034	1.2051	1.2067	1.2083	1.2099	1.2115	1.2131	1.2147
46.4	8	1.1967	1.1983	1.1999	1.2015	1.2031	1.2047	1.2064	1.2080	1.2096
48.2	9	1.1916	1.1932	1.1948	1.1964	1.1980	1.1996	1.2012	1.2028	1.2044
50	10	1.1864	1.1880	1.1896	1.1912	1.1928	1.1944	1.1960	1.1976	1.1992
51.8	11	1.1813	1.1829	1.1845	1.1861	1.1877	1.1893	1.1909	1.1924	1.1940
53.6	12	1.1760	1.1776	1.1792	1.1808	1.1823	1.1839	1.1855	1.1871	1.1887
55.4	13	1.1708	1.1724	1.1740	1.1755	1.1771	1.1787	1.1803	1.1819	1.1834
57.2	14	1.1656	1.1672	1.1687	1.1703	1.1719	1.1735	1.1750	1.1766	1.1782
59	15	1.1603	1.1619	1.1634	1.1650	1.1666	1.1681	1.1697	1.1713	1.1729
60.8	16	1.1550	1.1566	1.1581	1.1597	1.1613	1.1628	1.1644	1.1660	1.1675
62.6	17	1.1497	1.1513	1.1528	1.1544	1.1559	1.1575	1.1591	1.1606	1.1622
64.4	18	1.1442	1.1458	1.1473	1.1489	1.1504	1.1520	1.1535	1.1551	1.1566
66.2	19	1.1388	1.1404	1.1419	1.1435	1.1450	1.1466	1.1481	1.1496	1.1512
68	20	1.1333	1.1349	1.1364	1.1380	1.1395	1.1410	1.1426	1.1441	1.1457
69.8	21	1.1277	1.1293	1.1308	1.1323	1.1339	1.1354	1.1369	1.1385	1.1400
71.6	22	1.1221	1.1237	1.1252	1.1267	1.1283	1.1298	1.1313	1.1329	1.1344
73.4	23	1.1164	1.1180	1.1195	1.1210	1.1225	1.1241	1.1256	1.1271	1.1286
75.2	24	1.1108	1.1123	1.1138	1.1153	1.1168	1.1184	1.1199	1.1214	1.1229
77	25	1.1049	1.1064	1.1079	1.1094	1.1109	1.1124	1.1140	1.1155	1.1170
78.8	26	1.0991	1.1006	1.1021	1.1036	1.1051	1.1066	1.1081	1.1096	1.1112
80.6	27	1.0932	1.0947	1.0962	1.0977	1.0992	1.1007	1.1022	1.1037	1.1052
82.4	28	1.0872	1.0887	1.0902	1.0917	1.0932	1.0947	1.0962	1.0977	1.0992
84.2	29	1.0810	1.0825	1.0840	1.0855	1.0870	1.0885	1.0900	1.0915	1.0930
86	30	1.0749	1.0764	1.0779	1.0794	1.0809	1.0824	1.0839	1.0853	1.0868
87.8	31	1.0686	1.0701	1.0716	1.0730	1.0745	1.0760	1.0775	1.0790	1.0805
89.6	32	1.0621	1.0636	1.0651	1.0666	1.0681	1.0695	1.0710	1.0725	1.0740
91.4	33	1.0557	1 0572	1.0587	1.0601	1.0616	1.0631	1.0646	1.0660	1.0675
93.2	34	1.0490	1.0505	1.0519	1.0534	1.0549	1.0563	1.0578	1.0593	1.0607
95	35	1.0423	1.0438	1.0453	1.0467	1.0482	1.0497	1.0511	1.0526	1.0541

NITROGEN TABLE—*Continued.*

Degrees		762 mm. 30.00 inches.	763 mm. 30.04 inches.	764 mm. 30.08 inches.	765 mm. 30.12 inches.	766 mm. 30.16 inches.	767 mm. 30.20 inches.	768 mm. 30.24 inches.	769 mm. 30.28 inches.	770 mm. 30.32 inches.
Fahr.	Cent.									
32	0	1.2522	1.2539	1.2555	1.2572	1.2588	1.2605	1.2621	1.2638	1.2654
33.8	1	1.2472	1.2488	1.2505	1.2521	1.2538	1.2554	1.2571	1.2587	1.2604
35.6	2	1.2420	1.2437	1.2453	1.2469	1.2486	1.2502	1.2519	1.2535	1.2551
37.4	3	1.2369	1.2385	1.2401	1.2418	1.2434	1.2450	1.2467	1.2483	1.2499
39.2	4	1.2318	1.2334	1.2351	1.2367	1.2383	1.2399	1.2416	1.2432	1.2448
41	5	1.2267	1.2283	1.2299	1.2315	1.2332	1.2348	1.2364	1.2380	1.2397
42.8	6	1.2215	1.2231	1.2247	1.2263	1.2279	1.2296	1.2312	1.2328	1.2344
44.6	7	1.2163	1.2179	1.2196	1.2212	1.2228	1.2244	1.2260	1.2276	1.2292
46.4	8	1.2112	1.2128	1.2144	1.2160	1.2176	1.2192	1.2208	1.2224	1.2240
48.2	9	1.2060	1.2076	1.2092	1.2108	1.2124	1.2140	1.2156	1.2172	1.2188
50	10	1.2008	1.2024	1.2040	1.2056	1.2072	1.2088	1.2103	1.2119	1.2135
51.8	11	1.1956	1.1972	1.1988	1.2004	1.2020	1.2036	1.2052	1.2067	1.2083
53.6	12	1.1903	1.1918	1.1934	1.1950	1.1966	1.1982	1.1998	1.2013	1.2029
55.4	13	1.1850	1.1866	1.1882	1.1897	1.1913	1.1929	1.1945	1.1961	1.1976
57.2	14	1.1798	1.1813	1.1829	1.1845	1.1860	1.1876	1.1892	1.1908	1.1923
59	15	1.1744	1.1760	1.1776	1.1791	1.1807	1.1823	1.1838	1.1854	1.1870
60.8	16	1.1691	1.1706	1.1722	1.1738	1.1753	1.1769	1.1784	1.1800	1.1816
62.6	17	1.1637	1.1653	1.1668	1.1684	1.1700	1.1715	1.1731	1.1746	1.1762
64.4	18	1.1582	1.1597	1.1613	1.1628	1.1644	1.1659	1.1675	1.1690	1.1706
66.2	19	1.1527	1.1543	1.1558	1.1574	1.1589	1.1605	1.1620	1.1636	1.1651
68	20	1.1472	1.1487	1.1503	1.1518	1.1534	1.1549	1.1564	1.1580	1.1595
69.8	21	1.1416	1.1431	1.1446	1.1462	1.1477	1.1492	1.1508	1.1523	1.1538
71.6	22	1.1359	1.1374	1.1390	1.1405	1.1420	1.1436	1.1451	1.1466	1.1482
73.4	23	1.1302	1.1317	1.1332	1.1347	1.1363	1.1378	1.1393	1.1408	1.1424
75.2	24	1.1244	1.1260	1.1275	1.1290	1.1305	1.1320	1.1336	1.1351	1.1366
77	25	1.1185	1.1200	1.1215	1.1230	1.1246	1.1261	1.1276	1.1291	1.1306
78.8	26	1.1127	1.1142	1.1157	1.1172	1.1187	1.1202	1.1217	1.1232	1.1247
80.6	27	1.1067	1.1082	1.1097	1.1112	1.1127	1.1142	1.1157	1.1172	1.1188
82.4	28	1.1007	1.1022	1.1037	1.1052	1.1067	1.1082	1.1097	1.1112	1.1127
84.2	29	1.0945	1.0960	1.0974	1.0989	1.1004	1.1019	1.1034	1.1049	1.1064
86	30	1.0883	1.0898	1.0913	1.0928	1.0943	1.0958	1.0973	1.0988	1.1002
87.8	31	1.0819	1.0834	1.0849	1.0864	1.0879	1.0893	1.0909	1.0923	1.0938
89.6	32	1.0755	1.0769	1.0784	1.0799	1.0814	1.0829	1.0843	1.0858	1.0873
91.4	33	1.0690	1.0705	1.0719	1.0734	1.0749	1.0764	1.0778	1.0793	1.0808
93.2	34	1.0622	1.0637	1.0652	1.0666	1.0681	1.0696	1.0710	1.0725	1.0740
95	35	1.0555	1.0570	1.0585	1.0599	1.0614	1.0629	1.0643	1.0658	1.0673

TABLE FOR REDUCING VOLUMES OF GAS TO 0° C. AND 760 MM.

MM.	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°
730	.9365	.9332	.9299	.9266	.9233	.9201	.9169	.9137	.9105	.9074	.9042	.9011	.8980	.8950	.8919	.8887
731	.9378	.9345	.9311	.9278	.9246	.9214	.9182	.9150	.9118	.9086	.9055	.9023	.8993	.8962	.8932	.8899
732	.9391	.9357	.9324	.9291	.9258	.9226	.9194	.9162	.9130	.9099	.9067	.9035	.9005	.8974	.8944	.8911
733	.9404	.9370	.9337	.9304	.9271	.9239	.9207	.9175	.9143	.9111	.9079	.9048	.9017	.8986	.8956	.8923
734	.9416	.9383	.9350	.9317	.9284	.9252	.9220	.9187	.9155	.9123	.9092	.9060	.9030	.8999	.8968	.8935
735	.9429	.9396	.9362	.9329	.9297	.9264	.9232	.9200	.9168	.9136	.9104	.9072	.9042	.9011	.8980	.8948
736	.9442	.9408	.9375	.9342	.9309	.9276	.9244	.9212	.9180	.9148	.9116	.9085	.9054	.9023	.8993	.8960
737	.9455	.9421	.9388	.9354	.9321	.9288	.9255	.9225	.9193	.9161	.9129	.9098	.9067	.9035	.9005	.8972
738	.9468	.9434	.9401	.9368	.9335	.9302	.9269	.9237	.9205	.9172	.9141	.9110	.9079	.9047	.9017	.8984
739	.9481	.9447	.9413	.9381	.9348	.9315	.9282	.9250	.9218	.9186	.9153	.9122	.9091	.9059	.9029	.8996
740	.9493	.9459	.9426	.9393	.9360	.9327	.9294	.9262	.9230	.9198	.9166	.9135	.9103	.9071	.9041	.9009
741	.9506	.9472	.9439	.9406	.9373	.9340	.9307	.9275	.9243	.9211	.9178	.9147	.9116	.9084	.9054	.9021
742	.9519	.9485	.9452	.9419	.9386	.9352	.9320	.9287	.9255	.9223	.9191	.9159	.9128	.9096	.9066	.9033
743	.9532	.9498	.9464	.9431	.9398	.9365	.9332	.9300	.9268	.9236	.9203	.9172	.9140	.9108	.9078	.9045
744	.9545	.9511	.9477	.9444	.9411	.9378	.9345	.9312	.9280	.9248	.9215	.9184	.9153	.9120	.9090	.9057
745	.9558	.9523	.9490	.9457	.9424	.9390	.9357	.9325	.9293	.9261	.9228	.9197	.9165	.9133	.9102	.9070
746	.9570	.9536	.9502	.9469	.9436	.9403	.9370	.9337	.9305	.9273	.9240	.9209	.9177	.9145	.9115	.9082
747	.9583	.9549	.9515	.9482	.9449	.9416	.9383	.9350	.9318	.9285	.9252	.9221	.9190	.9157	.9127	.9094
748	.9596	.9562	.9528	.9495	.9462	.9428	.9395	.9362	.9330	.9297	.9265	.9234	.9202	.9169	.9139	.9106
749	.9609	.9575	.9541	.9507	.9474	.9441	.9408	.9375	.9343	.9310	.9277	.9246	.9214	.9182	.9151	.9118
750	.9622	.9587	.9554	.9520	.9486	.9453	.9421	.9387	.9354	.9322	.9290	.9258	.9226	.9194	.9164	.9130
751	.9635	.9600	.9566	.9533	.9499	.9466	.9434	.9400	.9367	.9335	.9302	.9270	.9239	.9206	.9176	.9143
752	.9647	.9613	.9579	.9545	.9512	.9478	.9446	.9412	.9379	.9347	.9314	.9283	.9251	.9218	.9188	.9155
753	.9660	.9626	.9592	.9558	.9524	.9491	.9459	.9425	.9392	.9360	.9327	.9295	.9263	.9231	.9200	.9167
754	.9673	.9638	.9604	.9571	.9536	.9503	.9471	.9437	.9404	.9372	.9339	.9307	.9276	.9243	.9212	.9179

TABLE FOR REDUCING VOLUMES OF GAS TO 0° C. AND 760 MM.—*Continued.*

MM.	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°
755	.9686	.9651	.9617	.9583	.9548	.9516	.9484	.9450	.9417	.9385	.9351	.9320	.9288	.9255	.9225	.9191
756	.9699	.9664	.9630	.9596	.9561	.9528	.9496	.9462	.9429	.9397	.9364	.9332	.9300	.9267	.9237	.9204
757	.9712	.9677	.9643	.9609	.9574	.9541	.9509	.9475	.9442	.9410	.9376	.9344	.9313	.9280	.9249	.9216
758	.9724	.9690	.9655	.9621	.9587	.9554	.9522	.9487	.9454	.9422	.9389	.9357	.9325	.9292	.9261	.9228
759	.9737	.9702	.9668	.9633	.9600	.9566	.9535	.9500	.9467	.9434	.9401	.9369	.9337	.9304	.9273	.9240
760	.9750	.9715	.9681	.9646	.9613	.9579	.9547	.9512	.9479	.9446	.9414	.9381	.9349	.9316	.9286	.9252
761	.9763	.9728	.9693	.9659	.9625	.9591	.9560	.9525	.9492	.9459	.9426	.9394	.9362	.9329	.9298	.9264
762	.9776	.9741	.9706	.9672	.9638	.9604	.9572	.9537	.9504	.9471	.9438	.9406	.9374	.9341	.9310	.9276
763	.9788	.9754	.9719	.9684	.9650	.9617	.9585	.9550	.9517	.9484	.9451	.9418	.9387	.9353	.9322	.9289
764	.9801	.9766	.9732	.9697	.9663	.9630	.9598	.9562	.9529	.9496	.9463	.9431	.9399	.9365	.9334	.9301
765	.9814	.9779	.9744	.9710	.9676	.9642	.9610	.9575	.9542	.9509	.9475	.9443	.9411	.9378	.9347	.9313
766	.9827	.9792	.9757	.9722	.9688	.9655	.9623	.9587	.9554	.9521	.9488	.9455	.9424	.9390	.9359	.9325
767	.9840	.9805	.9770	.9735	.9701	.9668	.9635	.9600	.9567	.9533	.9500	.9468	.9436	.9402	.9371	.9337
768	.9853	.9817	.9783	.9748	.9714	.9680	.9648	.9612	.9579	.9545	.9512	.9480	.9448	.9414	.9383	.9349
769	.9865	.9830	.9795	.9760	.9726	.9693	.9660	.9625	.9592	.9558	.9525	.9492	.9460	.9427	.9395	.9362
770	.9878	.9843	.9808	.9773	.9739	.9705	.9673	.9637	.9604	.9571	.9538	.9505	.9472	.9439	.9408	.9374
771	.9891	.9856	.9821	.9786	.9752	.9718	.9685	.9650	.9617	.9583	.9550	.9517	.9485	.9451	.9420	.9386
772	.9904	.9868	.9834	.9798	.9764	.9731	.9698	.9662	.9629	.9595	.9562	.9529	.9497	.9463	.9432	.9398
773	.9917	.9881	.9846	.9811	.9777	.9743	.9710	.9675	.9642	.9608	.9575	.9542	.9509	.9476	.9444	.9410
774	.9930	.9894	.9859	.9824	.9790	.9755	.9723	.9687	.9654	.9620	.9587	.9554	.9522	.9488	.9456	.9422
775	.9942	.9907	.9872	.9836	.9802	.9768	.9735	.9700	.9667	.9632	.9600	.9566	.9534	.9500	.9469	.9435
776	.9955	.9919	.9884	.9849	.9815	.9781	.9748	.9712	.9679	.9644	.9613	.9579	.9546	.9512	.9481	.9447
777	.9968	.9932	.9897	.9862	.9828	.9794	.9760	.9725	.9692	.9657	.9625	.9591	.9559	.9525	.9493	.9459
778	.9981	.9945	.9910	.9874	.9840	.9806	.9773	.9737	.9704	.9670	.9638	.9603	.9571	.9537	.9505	.9471
779	.9994	.9958	.9923	.9887	.9853	.9819	.9785	.9750	.9717	.9682	.9650	.9615	.9582	.9549	.9517	.9483
780	1.0007	.9971	.9935	.9899	.9866	.9831	.9798	.9762	.9729	.9695	.9662	.9628	.9595	.9562	.9530	.9496

TABLE FOR THE CONVERSION OF NITROGEN INTO AMMONIA AND ALBUMINOIDS.

N.	NH_3.	Albuminoids. N×6.33.	N.	NH_3.	Albuminoids. N×6.33.	N.	NH_3.	Albuminoids. N×6.33.	N.	NH_3.	Albuminoids. N×6.33.
.00	.00	.00	.42	.51	2.66	.84	1.02	5.32	1.26	1.53	7.98
.01	.01	.06	.43	.52	2.72	.85	1.03	5.38	1.27	1.54	8.04
.02	.02	.13	.44	.53	2.79	.86	1.04	5.44	1.28	1.55	8.10
.03	.04	.19	.45	.55	2.85	.87	1.06	5.51	1.29	1.57	8.17
.04	.05	.25	.46	.56	2.91	.88	1.07	5.57	1.30	1.58	8.23
.05	.06	.32	.47	.57	2.98	.89	1.08	5.63	1.31	1.59	8.29
.06	.07	.38	.48	.58	3.04	.90	1.09	5.70	1.32	1.60	8.36
.07	.08	.44	.49	.59	3.10	.91	1.10	5.76	1.33	1.61	8.42
.08	.10	.51	.50	.61	3.17	.92	1.12	5.82	1.34	1.63	8.48
.09	.11	.57	.51	.62	3.23	.93	1.13	5.89	1.35	1.64	8.55
.10	.12	.63	.52	.63	3.29	.94	1.14	5.95	1.36	1.65	8.61
.11	.13	.70	.53	.64	3.35	.95	1.15	6.01	1.37	1.66	8.67
.12	.15	.76	.54	.66	3.42	.96	1.17	6.08	1.38	1.68	8.74
.13	.16	.82	.55	.67	3.48	.97	1.18	6.14	1.39	1.69	8.80
.14	.17	.89	.56	.68	3.54	.98	1.19	6.20	1.40	1.70	8.86
.15	.18	.95	.57	.69	3.61	.99	1.20	6.27	1.41	1.71	8.93
.16	.19	1.01	.58	.70	3.67	1.00	1.21	6.33	1.42	1.72	8.99
.17	.21	1.08	.59	.72	3.73	1.01	1.23	6.39	1.43	1.74	9.05
.18	.22	1.14	.60	.73	3.80	1.02	1.24	6.46	1.44	1.75	9.12
.19	.23	1.20	.61	.74	3.86	1.03	1.25	6.52	1.45	1.76	9.18
.20	.24	1.27	.62	.75	3.92	1.04	1.26	6.58	1.46	1.77	9.24
.21	.25	1.33	.63	.76	3.99	1.05	1.27	6.65	1.47	1.78	9.31
.22	.27	1.39	.64	.78	4.05	1.06	1.29	6.71	1.48	1.80	9.37
.23	.28	1.46	.65	.79	4.11	1.07	1.30	6.77	1.49	1.81	9.43
.24	.29	1.52	.66	.80	4.18	1.08	1.31	6.84	1.50	1.82	9.50
.25	.30	1.58	.67	.81	4.24	1.09	1.32	6.90	1.51	1.83	9.56
.26	.32	1.65	.68	.83	4.30	1.10	1.34	6.96	1.52	1.85	9.62
.27	.33	1.71	.69	.84	4.37	1.11	1.35	7.03	1.53	1.86	9.68
.28	.34	1.77	.70	.85	4.43	1.12	1.36	7.09	1.54	1.87	9.75
.29	.35	1.84	.71	.86	4.49	1.13	1.37	7.15	1.55	1.88	9.81
.30	.36	1.90	.72	.87	4.56	1.14	1.38	7.22	1.56	1.89	9.87
.31	.38	1.96	.73	.89	4.62	1.15	1.40	7.28	1.57	1.91	9.94
.32	.39	2.03	.74	.90	4.68	1.16	1.41	7.34	1.58	1.92	10.00
.33	.40	2.09	.75	.91	4.75	1.17	1.42	7.41	1.59	1.93	10.06
.34	.41	2.15	.76	.92	4.81	1.18	1.43	7.47	1.60	1.94	10.13
.35	.42	2.22	.77	.93	4.87	1.19	1.44	7.53	1.61	1.95	10.19
.36	.44	2.28	.78	.95	4.94	1.20	1.46	7.60	1.62	1.97	10.25
.37	.45	2.34	.79	.96	5.00	1.21	1.47	7.66	1.63	1.98	10.32
.38	.46	2.41	.80	.97	5.06	1.22	1.48	7.72	1.64	1.99	10.38
.39	.47	2.47	.81	.98	5.13	1.23	1.49	7.79	1.65	2.00	10.44
.40	.49	2.53	.82	1.00	5.19	1.24	1.51	7.85	1.66	2.02	10.51
.41	.50	2.60	.83	1.01	5.25	1.25	1.52	7.91	1.67	2.03	10.57

REESE LIBRARY OF THE UNIVERSITY OF CALIFORNIA

NITROGEN, AMMONIA AND ALBUMINOIDS.—*Continued.*

N.	NH_3.	Albuminoids. N×6.33.	N.	NH_3.	Albuminoids. N×6.33.	N.	NH_3.	Albuminoids. N×6.33.	N.	NH_3.	Albuminoids. N×6.33.
1.68	2.04	10.63	2.11	2.56	13.36	2.54	3.08	16.08	2.97	3.61	18.80
1.69	2.05	10.70	2.12	2.57	13.42	2.55	3.10	16.14	2.98	3.62	18.86
1.70	2.06	10.76	2.13	2.59	13.48	2.56	3.11	16.20	2.99	3.63	18.93
1.71	2.08	10.82	2.14	2.60	13.55	2.57	3.12	16.27	3	3.64	18.99
1.72	2.09	10.89	2.15	2.61	13.61	2.58	3.13	16.33	3.01	3.65	19.05
1.73	2.10	10.95	2.16	2.62	13.67	2.59	3.14	16.39	3.02	3.67	19.12
1.74	2.11	11.01	2.17	2.63	13.74	2.60	3.16	16.46	3.03	3.68	19.18
1.75	2.12	11.08	2.18	2.65	13.80	2.61	3.17	16.52	3.04	3.69	19.24
1.76	2.14	11.14	2.19	2.66	13.86	2.62	3.18	16.58	3.05	3.70	19.31
1.77	2.15	11.20	2.20	2.67	13.93	2.63	3.19	16.65	3.06	3.71	19.37
1.78	2.16	11.27	2.21	2.68	13.99	2.64	3.20	16.71	3.07	3.73	19.43
1.79	2.17	11.33	2.22	2.70	14.05	2.65	3.22	16.77	3.08	3.74	19.50
1.80	2.19	11.39	2.23	2.71	14.12	2.66	3.23	16.84	3.09	3.75	19.56
1.81	2.20	11.46	2.24	2.72	14.18	2.67	3.24	16.90	3.10	3.76	19.62
1.82	2.21	11.52	2.25	2.73	14.24	2.68	3.25	16.96	3.11	3.78	19.69
1.83	2.22	11.58	2.26	2.74	14.31	2.69	3.27	17.03	3.12	3.79	19.75
1.84	2.23	11.65	2.27	2.76	14.37	2.70	3.28	17.09	3.13	3.80	19.81
1.85	2.25	11.71	2.28	2.77	14.43	2.71	3.29	17.15	3.14	3.81	19.88
1.86	2.26	11.77	2.29	2.78	14.50	2.72	3.30	17.22	3.15	3.82	19.94
1.87	2.27	11.84	2.30	2.79	14.56	2.73	3.31	17.28	3.16	3.84	20.00
1.88	2.28	11.90	2.31	2.80	14.62	2.74	3.33	17.34	3.17	3.85	20.07
1.89	2.29	11.96	2.32	2.82	14.69	2.75	3.34	17.41	3.18	3.86	20.13
1.90	2.31	12.03	2.33	2.83	14.75	2.76	3.35	17.47	3.19	3.87	20.19
1.91	2.32	12.09	2.34	2.84	14.81	2.77	3.36	17.53	3.20	3.88	20.26
1.92	2.33	12.15	2.35	2.85	14.88	2.78	3.37	17.60	3.21	3.90	20.32
1.93	2.34	12.22	2.36	2.87	14.94	2.79	3.39	17.66	3.22	3.91	20.38
1.94	2.36	12.28	2.37	2.88	15.00	2.80	3.40	17.72	3.23	3.92	20.45
1.95	2.37	12.34	2.38	2.89	15.07	2.81	3.41	17.79	3.24	3.93	20.51
1.96	2.38	12.41	2.39	2.90	15.13	2.82	3.42	17.85	3.25	3.95	20.57
1.97	2.39	12.47	2.40	2.91	15.19	2.83	3.44	17.91	3.26	3.96	20.64
1.98	2.40	12.53	2.41	2.93	15.26	2.84	3.45	17.98	3.27	3.97	20.70
1.99	2.42	12.60	2.42	2.94	15.32	2.85	3.46	18.04	3.28	3.98	20.76
2.00	2.43	12.66	2.43	2.95	15.38	2.86	3.47	18.10	3.29	3.99	20.83
2.01	2.44	13.72	2.44	2.96	15.45	2.87	3.48	18.17	3.30	4.01	20.89
2.02	2.45	12.79	2.45	2.97	15.51	2.88	3.50	18.23	3.31	4.02	20.95
2.03	2.46	12.85	2.46	2.99	15.57	2.89	3.51	18.29	3.32	4.03	21.02
2.04	2.48	12.91	2.47	3.00	15.64	2.90	3.52	18.36	3.33	4.04	21.08
2.05	2.49	12.98	2.48	3.01	15.70	2.91	3.53	18.42	3.34	4.05	21.14
2.06	2.50	13.04	2.49	3.02	15.76	2.92	3.54	18.48	3.35	4.07	21.21
2.07	2.51	13.10	2.50	3.04	15.83	2.93	3.56	18.55	3.36	4.08	21.27
2.08	2.53	13.17	2.51	3.05	15.89	2.94	3.57	18.61	3.37	4.09	21.33
2.09	2.54	13.23	2.52	3.06	15.95	2.95	3.58	18.67	3.38	4.10	21.40
2.10	2.55	13.29	2.53	3.07	16.01	2.96	3.59	18.74	3.39	4.12	21.46

NITROGEN, AMMONIA AND ALBUMINOIDS.—*Continued.*

N.	NH$_3$.	Albuminoids. N×6.33.	N.	NH$_3$.	Albuminoids. N×6.33.	N.	NH$_3$.	Albuminoids. N×6.33.	N.	NH$_3$.	Albuminoids. N×6.33.
3.40	4.13	21.52	3.85	4.67	24.37	4.30	5.22	27.22	4.75	5.77	30.07
3.41	4.14	21.59	3.86	4.69	24.43	4.31	5.23	27.28	4.76	5.78	30.13
3.42	4.15	21.65	3.87	4.70	24.50	4.32	5.24	27.35	4.77	5.79	30.19
3.43	4.16	21.71	3.88	4.71	24.56	4.33	5.26	27.41	4.78	5.80	30.26
3.44	4.18	21.78	3.89	4.72	24.62	4.34	5.27	27.47	4.79	5.82	30.32
3.45	4.19	21.84	3.90	4.73	24.69	4.35	5.28	27.54	4.80	5.83	30.38
3.46	4.20	21.90	3.91	4.75	24.75	4.36	5.29	27.60	4.81	5.84	30.45
3.47	4.21	21.97	3.92	4.76	24.81	4.37	5.31	27.66	4.82	5.85	30.51
3.48	4.22	22.03	3.93	4.77	24.88	4.38	5.32	27.73	4.83	5.86	30.57
3.49	4.24	22.09	3.94	4.78	24.94	4.39	5.33	27.79	4.84	5.88	30.64
3.50	4.25	22.16	3.95	4.80	25.00	4.40	5.34	27.85	4.85	5.89	30.70
3.51	4.26	22.22	3.96	4.81	25.07	4.41	5.35	27.92	4.86	5.90	30.76
3.52	4.27	22.28	3.97	4.82	25.13	4.42	5.37	27.98	4.87	5.91	30.83
3.53	4.29	22.34	3.98	4.83	25.19	4.43	5.38	28.04	4.88	5.92	30.89
3.54	4.30	22.41	3.99	4.84	25.26	4.44	5.39	28.11	4.89	5.94	30.95
3.55	4.31	22.47	4	4.86	25.32	4.45	5.40	28.17	4.90	5.95	31.02
3.56	4.32	22.53	4.01	4.87	25.38	4.46	5.41	28.23	4.91	5.96	31.08
3.57	4.33	22.60	4.02	4.88	25.45	4.47	5.43	28.30	4.92	5.97	31.14
3.58	4.35	22.66	4.03	4.89	25.51	4.48	5.44	28.36	4.93	5.99	31.21
3.59	4.36	22.72	4.04	4.90	25.57	4.49	5.45	28.42	4.94	6	31.27
3.60	4.37	22.79	4.05	4.92	25.64	4.50	5.46	28.49	4.95	6.01	31.33
3.61	4.38	22.85	4.06	4.93	25.70	4.51	5.48	28.55	4.96	6.02	31.40
3.62	4.39	22.91	4.07	4.94	25.76	4.52	5.49	28.61	4.97	6.03	31.46
3.63	4.41	22.98	4.08	4.95	25.83	4.53	5.50	28.67	4.98	6.05	31.52
3.64	4.42	23.04	4.09	4.97	25.89	4.54	5.51	28.74	4.99	6.06	31.59
3.65	4.43	23.10	4.10	4.98	25.95	4.55	5.52	28.80	5	6.07	31.65
3.66	4.44	23.17	4.11	4.99	26.02	4.56	5.54	28.86	5.01	6.08	31.71
3.67	4.46	23.23	4.12	5	26.08	4.57	5.55	28.93	5.02	6.09	31.78
3.68	4.47	23.29	4.13	5.01	26.14	4.58	5.56	28.99	5.03	6.11	31.84
3.69	4.48	23.36	4.14	5.03	26.21	4.59	5.57	29.05	5.04	6.12	31.90
3.70	4.49	23.42	4.15	5.04	26.27	4.60	5.58	29.12	5.05	6.13	31.97
3.71	4.50	23.48	4.16	5.05	26.33	4.61	5.60	29.18	5.06	6.14	32.03
3.72	4.52	23.55	4.17	5.06	26.40	4.62	5.61	29.24	5.07	6.15	32.09
3.73	4.53	23.61	4.18	5.07	26.46	4.63	5.62	29.31	5.08	6.17	32.16
3.74	4.54	23.67	4.19	5.09	26.52	4.64	5.63	29.37	5.09	6.18	32.22
3.75	4.55	23.74	4.20	5.10	26.59	4.65	5.65	29.43	5.10	6.19	32.28
3.76	4.56	23.80	4.21	5.11	26.65	4.66	5.66	29.50	5.11	6.20	32.35
3.77	4.58	23.86	4.22	5.12	26.71	4.67	5.67	29.56	5.12	6.22	32.41
3.78	4.59	23.93	4.23	5.14	26.78	4.68	5.68	29.62	5.13	6.23	32.47
3.79	4.60	23.99	4.24	5.15	26.84	4.69	5.69	29.69	5.14	6.24	32.54
3.80	4.61	24.05	4.25	5.16	26.90	4.70	5.71	29.75	5.15	6.25	32.60
3.81	4.63	24.12	4.26	5.17	26.97	4.71	5.72	29.81	5.16	6.26	32.66
3.82	4.64	24.18	4.27	5.18	27.03	4.72	5.73	29.88	5.17	6.28	32.73
3.83	4.65	24.24	4.28	5.20	27.09	4.73	5.74	29.94	5.18	6.29	32.79
3.84	4.66	24.31	4.29	5.21	27.16	4.74	5.75	30.00	5.19	6.30	32.85

NITROGEN, AMMONIA AND ALBUMINOIDS.—*Continued.*

N.	NH_3.	Albuminoids. N×6.33.	N.	NH_3.	Albuminoids. N×6.33.	N.	NH_3.	Albuminoids. N×6.33.	N.	NH_3.	Albuminoids N×6.33
5.20	6.31	32.92	5.65	6.86	35.76	6.10	7.41	38.61	6.55	7.95	41.47
5.21	6.32	32.98	5.66	6.87	35.83	6.11	7.42	38.68	6.56	7.96	41.53
5.22	6.34	33.04	5.67	6.88	35.89	6.12	7.43	38.74	6.57	7.98	41.59
5.23	6.35	33.11	5.68	6.90	35.95	6.13	7.44	38.80	6.58	7.99	41.65
5.24	6.36	33.17	5.69	6.91	36.02	6.14	7.45	38.87	6.59	8	41.71
5.25	6.37	33.23	5.70	6.92	36.08	6.15	7.47	38.93	6.60	8.01	41.78
5.26	6.39	33.30	5.71	6.93	36.14	6.16	7.48	38.99	6.61	8.02	41.84
5.27	6.40	33.36	5.72	6.94	36.21	6.17	7.49	39.06	6.62	8.04	41.90
5.28	6.41	33.42	5.73	6.96	36.27	6.18	7.50	39.12	6.63	8.05	41.97
5.29	6.42	33.49	5.74	6.97	36.33	6.19	7.51	39.19	6.64	8.06	42.03
5.30	6.43	33.55	5.75	6.98	36.40	6.20	7.53	39.25	6.65	8.07	42.09
5.31	6.45	33.61	5.76	6.99	36.46	6.21	7.54	39.31	6.66	8.09	42.16
5.32	6.46	33.68	5.77	7	36.52	6.22	7.55	39.37	6.67	8.10	42.22
5.33	6.47	33.74	5.78	7.02	36.59	6.23	7.56	39.44	6.68	8.11	42.28
5.34	6.48	33.80	5.79	7.03	36.65	6.24	7.58	39.50	6.69	8.12	42.35
5.35	6.49	33.87	5.80	7.04	36.71	6.25	7.59	39.56	6.70	8.13	42.41
5.36	6.51	33.93	5.81	7.05	36.78	6.26	7.60	39.63	6.71	8.15	42.47
5.37	6.52	33.99	5.82	7.07	36.84	6.27	7.61	39.69	6.72	8.16	42.54
5.38	6.53	34.06	5.83	7.08	36.90	6.28	7.62	39.75	6.73	8.17	42.60
5.39	6.54	34.12	5.84	7.09	36.97	6.29	7.64	39.82	6.74	8.18	42.66
5.40	6.56	34.18	5.85	7.10	37.03	6.30	7.65	39.88	6.75	8.19	42.73
5.41	6.57	34.25	5.86	7.11	37.09	6.31	7.66	39.94	6.76	8.21	42.79
5.42	6.58	34.31	5.87	7.13	37.16	6.32	7.67	40.01	6.77	8.22	42.85
5.43	6.59	34.37	5.88	7.14	37.22	6.33	7.68	40.07	6.78	8.23	42.92
5.44	6.60	34.44	5.89	7.15	37.28	6.34	7.70	40.13	6.79	8.24	42.98
5.45	6.62	34.50	5.90	7.16	37.35	6.35	7.71	40.20	6.80	8.26	43.04
5.46	6.63	34.56	5.91	7.17	37.41	6.36	7.72	40.26	6.81	8.27	43.11
5.47	6.64	34.63	5.92	7.19	37.47	6.37	7.73	40.32	6.82	8.28	43.17
5.48	6.65	34.69	5.93	7.20	37.54	6.38	7.75	40.39	6.83	8.29	43.23
5.49	6.66	34.75	5.94	7.21	37.60	6.39	7.76	40.45	6.84	8.30	43.30
5.50	6.68	34.82	5.95	7.22	37.66	6.40	7.77	40.51	6.85	8.32	43.36
5.51	6.69	34.88	5.96	7.24	37.73	6.41	7.78	40.58	6.86	8.33	43.42
5.52	6.70	34.94	5.97	7.25	37.79	6.42	7.79	40.64	6.87	8.34	43.49
5.53	6.71	35.00	5.98	7.26	37.85	6.43	7.81	40.70	6.88	8.35	43.55
5.54	6.73	35.07	5.99	7.27	37.92	6.44	7.82	40.77	6.89	8.36	43.61
5.55	6.74	35.13	6	7.28	37.98	6.45	7.83	40.83	6.90	8.38	43.68
5.56	6.75	35.19	6.01	7.30	38.04	6.46	7.84	40.89	6.91	8.39	43.74
5.57	6.76	35.26	6.02	7.31	38.11	6.47	7.85	40.96	6.92	8.40	43.80
5.58	6.77	35.32	6.03	7.32	38.17	6.48	7.87	41.02	6.93	8.41	43.87
5.59	6.79	35.38	6.04	7.33	38.23	6.49	7.88	41.08	6.94	8.43	43.93
5.60	6.80	35.45	6.05	7.34	38.30	6.50	7.89	41.15	6.95	8.44	43.99
5.61	6.81	35.51	6.06	7.36	38.36	6.51	7.90	41.21	6.96	8.45	44.06
5.62	6.82	35.57	6.07	7.37	38.42	6.52	7.92	41.27	6.97	8.46	44.12
5.63	6.83	35.64	6.08	7.38	38.49	6.53	7.93	41.33	6.98	8.47	44.18
5.64	6.85	35.70	6.09	7.39	38.55	6.54	7.94	41.40	6.99	8.49	44.25

NITROGEN, AMMONIA AND ALBUMINOIDS.—*Continued.*

N.	NH_3.	Albuminoids. $N \times 6.33$.	N.	NH_3.	Albuminoids. $N \times 6.33$.	N.	NH_3.	Albuminoids. $N \times 6.33$.	N.	NH_3.	Albuminoids. $N \times 6.33$.
7	8.50	44.31	7.45	9.04	47.16	7.90	9.59	50.01	8.35	10.14	52.86
7.01	8.51	44.37	7.46	9.06	47.22	7.91	9.60	50.07	8.36	10.15	52.92
7.02	8.52	44.44	7.47	9.07	47.29	7.92	9.61	50.13	8.37	10.16	52.98
7.03	8.53	44.50	7.48	9.08	47.35	7.93	9.63	50.20	8.38	10.17	53.05
7.04	8.55	44.56	7.49	9.09	47.41	7.94	9.64	50.26	8.39	10.19	53.11
7.05	8.56	44.63	7.50	9.11	47.48	7.95	9.65	50.32	8.40	10.20	53.17
7.06	8.57	44.69	7.51	9.12	47.54	7.96	9.66	50.39	8.41	10.21	53.24
7.07	8.58	44.75	7.52	9.13	47.60	7.97	9.68	50.45	8.42	10.22	53.30
7.08	8.60	44.82	7.53	9.14	47.66	7.98	9.69	50.52	8.43	10.23	53.36
7.09	8.61	44.88	7.54	9.15	47.73	7.99	9.70	50.58	8.44	10.25	53.43
7.10	8.62	44.94	7.55	9.17	47.80	8	9.71	50.64	8.45	10.26	53.49
7.11	8.63	45.01	7.56	9.18	47.86	8.01	9.72	50.70	8.46	10.27	53.55
7.12	8.64	45.07	7.57	9.19	47.92	8.02	9.74	50.77	8.47	10.28	53.62
7.13	8.66	45.13	7.58	9.20	47.98	8.03	9.75	50.83	8.48	10.29	53.68
7.14	8.67	45.20	7.59	9.21	48.04	8.04	9.76	50.89	8.49	10.31	53.74
7.15	8.68	45.26	7.60	9.23	48.11	8.05	9.77	50.96	8.50	10.32	53.81
7.16	8.69	45.32	7.61	9.24	48.17	8.06	9.78	51.02	8.51	10.33	53.87
7.17	8.70	45.39	7.62	9.25	48.23	8.07	9.80	51.08	8.52	10.34	53.93
7.18	8.72	45.45	7.63	9.26	48.30	8.08	9.81	51.15	8.53	10.36	53.99
7.19	8.73	45.52	7.64	9.27	48.36	8.09	9.82	51.21	8.54	10.37	54.06
7.20	8.74	45.58	7.65	9.29	48.42	8.10	9.83	51.27	8.55	10.38	54.13
7.21	8.75	45.64	7.66	9.30	48.49	8.11	9.85	51.34	8.56	10.39	54.19
7.22	8.77	45.70	7.67	9.31	48.55	8.12	9.86	51.40	8.57	10.40	54.25
7.23	8.78	45.77	7.68	9.32	48.61	8.13	9.87	51.46	8.58	10.42	54.31
7.24	8.79	45.83	7.69	9.34	48.68	8.14	9.88	51.53	8.59	10.43	54.37
7.25	8.80	45.89	7.70	9.35	48.74	8.15	9.89	51.59	8.60	10.44	54.44
7.26	8.81	45.96	7.71	9.36	48.80	8.16	9.91	51.65	8.61	10.45	54.50
7.27	8.83	46.02	7.72	9.37	48.87	8.17	9.92	51.72	8.62	10.46	54.56
7.28	8.84	46.08	7.73	9.38	48.93	8.18	9.93	51.78	8.63	10.48	54.63
7.29	8.85	46.15	7.74	9.40	48.99	8.19	9.94	51.85	8.64	10.49	54.69
7.30	8.86	46.21	7.75	9.41	49.06	8.20	9.95	51.91	8.65	10.50	54.75
7.31	8.87	46.27	7.76	9.42	49.12	8.21	9.97	51.97	8.66	10.51	54.82
7.32	8.89	46.34	7.77	9.43	49.18	8.22	9.98	52.03	8.67	10.53	54.88
7.33	8.90	46.40	7.78	9.44	49.25	8.23	9.99	52.10	8.68	10.54	54.94
7.34	8.91	46.46	7.79	9.46	49.31	8.24	10	52.16	8.69	10.55	55.01
7.35	8.92	46.53	7.80	9.47	49.37	8.25	10.02	52.22	8.70	10.56	55.07
7.36	8.94	46.59	7.81	9.48	49.44	8.26	10.03	52.29	8.71	10.57	55.13
7.37	8.95	46.65	7.82	9.49	49.50	8.27	10.04	52.35	8.72	10.59	55.20
7.38	8.96	46.72	7.83	9.51	49.56	8.28	10.05	52.41	8.73	10.60	55.26
7.39	8.97	46.78	7.84	9.52	49.63	8.29	10.06	52.48	8.74	10.61	55.32
7.40	8.98	46.84	7.85	9.53	49.69	8.30	10.08	52.54	8.75	10.62	55.39
7.41	9	46.91	7.86	9.54	49.75	8.31	10.09	52.60	8.76	10.63	55.45
7.42	9.01	46.97	7.87	9.55	49.82	8.32	10.10	52.67	8.77	10.65	55.51
7.43	9.02	47.03	7.88	9.57	49.88	8.33	10.11	52.73	8.78	10.66	55.58
7.44	9.03	47.10	7.89	9.58	49.94	8.34	10.12	52.79	8.79	10.67	55.64

NITROGEN, AMMONIA AND ALBUMINOIDS.—*Continued.*

N.	NH_3.	Albuminoids N×6.33	N.	NH_3.	Albuminoids N×6.33	N.	NH_3.	Albuminoids N×6.33	N.	NH_3.	Albuminoids N×6.33
8.80	10.68	55.70	9.25	11.23	58.55	9.70	11.78	61.40	10.15	12.32	64.25
8.81	10.70	55.77	9.26	11.24	58.62	9.71	11.79	61.46	10.16	12.33	64.31
8.82	10.71	55.83	9.27	11.25	58.68	9.72	11.80	61.53	10.17	12.35	64.38
8.83	10.72	55.89	9.28	11.27	58.74	9.73	11.81	61.59	10.18	12.36	64.44
8.84	10.73	55.96	9.29	11.28	58.81	9.74	11.82	61.65	10.19	12.37	64.51
8.85	10.74	56.02	9.30	11.29	58.87	9.75	11.84	61.72	10.20	12.38	64.57
8.86	10.76	56.08	9.31	11.30	58.93	9.76	11.85	61.78	10.21	12.39	64.63
8.87	10.77	56.15	9.32	11.31	59	9.77	11.86	61.84	10.22	12.41	64.69
8.88	10.78	56.21	9.33	11.33	59.06	9.78	11.87	61.91	10.23	12.42	64.76
8.89	10.79	56.27	9.34	11.34	59.12	9.79	11.89	61.97	10.24	12.43	64.82
8.90	10.80	56.34	9.35	11.35	59.19	9.80	11.90	62.03	10.25	12.44	64.88
8.91	10.82	56.40	9.36	11.36	59.25	9.81	11.91	62.10	10.26	12.46	64.95
8.92	10.83	56.47	9.37	11.38	59.31	9.82	11.92	62.16	10.27	12.47	65.01
8.93	10.84	56.53	9.38	11.39	59.38	9.83	11.93	62.22	10.28	12.48	65.07
8.94	10.85	56.59	9.39	11.40	59.44	9.84	11.95	62.29	10.29	12.49	65.14
8.95	10.87	56.65	9.40	11.41	59.50	9.85	11.96	62.35	10.30	12.50	65.20
8.96	10.88	56.72	9.41	11.42	59.57	9.86	11.97	62.41	10.31	12.52	65.26
8.97	10.89	56.78	9.42	11.44	59.63	9.87	11.98	62.48	10.32	12.53	65.33
8.98	10.90	56.85	9.43	11.45	59.69	9.88	11.99	62.54	10.33	12.54	65.39
8.99	10.91	56.91	9.44	11.46	59.76	9.89	12.01	62.60	10.34	12.55	65.45
9	10.93	56.97	9.45	11.47	59.82	9.90	12.02	62.67	10.35	12.56	65.52
9.01	10.94	57.03	9.46	11.48	59.88	9.91	12.03	62.73	10.36	12.58	65.58
9.02	10.95	57.10	9.47	11.50	59.95	9.92	12.04	62.80	10.37	12.59	65.64
9.03	10.96	57.16	9.48	11.51	60.01	9.93	12.06	62.86	10.38	12.60	65.71
9.04	10.97	57.22	9.49	11.52	60.07	9.94	12.07	62.92	10.39	12.61	65.77
9.05	10.99	57.29	9.50	11.53	60.14	9.95	12.08	62.98	10.40	12.63	65.83
9.06	11	57.35	9.51	11.55	60.20	9.96	12.09	63.05	10.41	12.64	65.90
9.07	11.01	57.41	9.52	11.56	60.26	9.97	12.10	63.11	10.42	12.65	65.96
9.08	11.02	57.48	9.53	11.57	60.32	9.98	12.12	63.18	10.43	12.66	66.02
9.09	11.04	57.54	9.54	11.58	60.39	9.99	12.13	63.24	10.44	12.67	66.09
9.10	11.05	57.60	9.55	11.59	60.46	10	12.14	63.30	10.45	12.69	66.15
9.11	11.06	57.67	9.56	11.61	60.52	10.01	12.15	63.36	10.46	12.70	66.21
9.12	11.07	57.73	9.57	11.62	60.58	10.02	12.16	63.43	10.47	12.71	66.28
9.13	11.08	57.79	9.58	11.63	60.64	10.03	12.18	63.49	10.48	12.72	66.34
9.14	11.10	57.86	9.59	11.64	60.70	10.04	12.19	63.55	10.49	12.73	66.40
9.15	11.11	57.92	9.60	11.65	60.77	10.05	12.20	63.62	10.50	12.75	66.47
9.16	11.12	57.98	9.61	11.67	60.83	10.06	12.21	63.68	10.51	12.76	66.53
9.17	11.13	58.05	9.62	11.68	60.89	10.07	12.22	63.74	10.52	12.77	66.59
9.18	11.14	58.11	9.63	11.69	60.96	10.08	12.24	63.81	10.53	12.78	66.65
9.19	11.16	58.18	9.64	11.70	61.02	10.09	12.25	63.87	10.54	12.80	66.72
9.20	11.17	58.24	9.65	11.72	61.08	10.10	12.26	63.93	10.55	12.81	66.79
9.21	11.18	58.30	9.66	11.73	61.15	10.11	12.27	64	10.56	12.82	66.85
9.22	11.19	58.36	9.67	11.74	61.21	10.12	12.29	64.06	10.57	12.83	66.91
9.23	11.21	58.43	9.68	11.75	61.27	10.13	12.30	64.12	10.58	12.84	66.97
9.24	11.22	58.49	9.69	11.76	61.34	10.14	12.31	64.19	10.59	12.86	67.04

NITROGEN, AMMONIA AND ALBUMINOIDS.—*Continued.*

N.	NH_3.	Albuminoids N×6.33	N.	NH_3.	Albuminoids N×6.33	N.	NH_3.	Albuminoids N×6.33	N.	NH_3.	Albuminoids N×6.33
10.60	12.87	67.10	11.05	13.41	69.95	11.50	13.96	72.80	11.95	14.51	75.64
10.61	12.88	67.16	11.06	13.43	70.01	11.51	13.97	72.86	11.96	14.52	75.71
10.62	12.89	67.22	11.07	13.44	70.07	11.52	13.99	72.92	11.97	14.53	75.77
10.63	12.90	67.29	11.08	13.45	70.14	11.53	14	72.98	11.98	14.54	75.84
10.64	12.92	67.35	11.09	13.46	70.20	11.54	14.01	73.05	11.99	14.56	75.90
10.65	12.93	67.41	11.10	13.48	70.26	11.55	14.02	73.12	12	14.57	75.96
10.66	12.94	67.48	11.11	13.49	70.33	11.56	14.03	73.18	12.01	14.58	76.02
10.67	12.95	67.54	11.12	13.50	70.39	11.57	14.05	73.24	12.02	14.59	76.09
10.68	12.97	67.60	11.13	13.51	70.45	11.58	14.06	73.30	12.03	14.60	76.15
10.69	12.98	67.67	11.14	13.52	70.52	11.59	14.07	73.36	12.04	14.62	76.21
10.70	12.99	67.73	11.15	13.54	70.58	11.60	14.08	73.43	12.05	14.63	76.28
10.71	13	67.79	11.16	13.55	70.64	11.61	14.09	73.49	12.06	14.64	76.34
10.72	13.01	67.86	11.17	13.56	70.71	11.62	14.11	73.55	12.07	14.65	76.40
10.73	13.03	67.92	11.18	13.57	70.77	11.63	14.12	73.62	12.08	14.67	76.47
10.74	13.04	67.98	11.19	13.58	70.84	11.64	14.13	73.68	12.09	14.68	76.53
10.75	13.05	68.05	11.20	13.60	70.90	11.65	14.14	73.74	12.10	14.69	76.59
10.76	13.06	68.11	11.21	13.61	70.96	11.66	14.16	73.81	12.11	14.70	76.66
10.77	13.07	68.17	11.22	13.62	71.02	11.67	14.17	73.87	12.12	14.71	76.72
10.78	13.09	68.24	11.23	13.63	71.09	11.68	14.18	73.93	12.13	14.73	76.78
10.79	13.10	68.30	11.24	13.65	71.15	11.69	14.19	74	12.14	14.74	76.85
10.80	13.11	68.36	11.25	13.66	71.21	11.70	14.20	74.06	12.15	14.75	76.91
10.81	13.12	68.43	11.26	13.67	71.28	11.71	14.22	74.12	12.16	14.76	76.97
10.82	13.14	68.49	11.27	13.68	71.34	11.72	14.23	74.19	12.17	14.77	77.04
10.83	13.15	68.55	11.28	13.69	71.40	11.73	14.24	74.25	12.18	14.79	77.10
10.84	13.16	68.62	11.29	13.71	71.47	11.74	14.25	74.31	12.19	14.80	77.17
10.85	13.17	68.68	11.30	13.72	71.53	11.75	14.26	74.38	12.20	14.81	77.23
10.86	13.18	68.74	11.31	13.73	71.59	11.76	14.28	74.44	12.21	14.82	77.29
10.87	13.20	68.81	11.32	13.74	71.66	11.77	14.29	74.50	12.22	14.84	77.35
10.88	13.21	68.87	11.33	13.75	71.72	11.78	14.30	74.57	12.23	14.85	77.42
10.89	13.22	68.93	11.34	13.77	71.78	11.79	14.31	74.63	12.24	14.86	77.48
10.90	13.23	69	11.35	13.78	71.85	11.80	14.33	74.69	12.25	14.87	77.54
10.91	13.24	69.06	11.36	13.79	71.91	11.81	14.34	74.76	12.26	14.88	77.61
10.92	13.26	69.13	11.37	13.80	71.97	11.82	14.35	74.82	12.27	14.90	77.67
10.93	13.27	69.19	11.38	13.82	72.04	11.83	14.36	74.88	12.28	14.91	77.73
10.94	13.28	69.25	11.39	13.83	72.10	11.84	14.37	74.95	12.29	14.92	77.80
10.95	13.29	69.31	11.40	13.84	72.16	11.85	14.39	75.01	12.30	14.93	77.86
10.96	13.31	69.38	11.41	13.85	72.23	11.86	14.40	75.07	12.31	14.94	77.92
10.97	13.32	69.44	11.42	13.86	72.29	11.87	14.41	75.14	12.32	14.96	77.99
10.98	13.33	69.51	11.43	13.88	72.35	11.88	14.42	75.20	12.33	14.97	78.05
10.99	13.34	69.57	11.44	13.89	72.42	11.89	14.43	75.26	12.34	14.98	78.11
11	13.35	69.63	11.45	13.90	72.48	11.90	14.45	75.33	12.35	14.99	78.18
11.01	13.37	69.69	11.46	13.91	72.54	11.91	14.46	75.39	12.36	15.01	78.24
11.02	13.38	69.76	11.47	13.92	72.61	11.92	14.47	75.46	12.37	15.02	78.30
11.03	13.39	69.82	11.48	13.94	72.67	11.93	14.48	75.52	12.38	15.03	78.37
11.04	13.40	69.88	11.49	13.95	72.73	11.94	14.50	75.58	12.39	15.04	78.43

NITROGEN, AMMONIA AND ALBUMINOIDS.—*Continued.*

N.	NH_3.	Albuminoids $N\times6.33$	N.	NH_3	Albuminoids $N\times6.33$	N.	NH_3.	Albuminoids $N\times6.33$	N.	NH_3.	Albuminoids $N\times6.33$
12.40	15.05	78.49	12.85	15.60	81.34	13.30	16.15	84.19	13.75	16.69	87.04
12.41	15.07	78.56	12.86	15.61	81.40	13.31	16.16	84.25	13.76	16.70	87.10
12.42	15.08	78.62	12.87	15.62	81.47	13.32	16.17	84.32	13.77	16.72	87.16
12.43	15.09	78.68	12.88	15.64	81.53	13.33	16.18	84.38	13.78	16.73	87.23
12.44	15.10	78.75	12.89	15.65	81.59	13.34	16.19	84.44	13.79	16.74	87.29
12.45	15.11	78.81	12.90	15.66	81.66	13.35	16.21	84.51	13.80	16.75	87.35
12.46	15.13	78.87	12.91	15.67	81.72	13.36	16.22	84.57	13.81	16.77	87.42
12.47	15.14	78.94	12.92	15.68	81.79	13.37	16.23	84.63	13.82	16.78	87.48
12.48	15.15	79	12.93	15.70	81.85	13.38	16.24	84.70	13.83	16.79	87.54
12.49	15.16	79.06	12.94	15.71	81.91	13.39	16.26	84.76	13.84	16.80	87.61
12.50	15.18	79.13	12.95	15.72	81.97	13.40	16.27	84.82	13.85	16.81	87.67
12.51	15.19	79.19	12.96	15.73	82.04	13.41	16.28	84.89	13.86	16.83	87.73
12.52	15.20	79.25	12.97	15.75	82.10	13.42	16.29	84.95	13.87	16.84	87.80
12.53	15.21	79.31	12.98	15.76	82.17	13.43	16.30	85.01	13.88	16.85	87.86
12.54	15.22	79.38	12.99	15.77	82.23	13.44	16.32	85.08	13.89	16.86	87.92
12.55	15.24	79.45	13	15.78	82.29	13.45	16.33	85.14	13.90	16.87	87.99
12.56	15.25	79.51	13.01	15.79	82.35	13.46	16.34	85.20	13.91	16.89	88.05
12.57	15.26	79.57	13.02	15.81	82.42	13.47	16.35	85.27	13.92	16.90	88.12
12.58	15.27	79.63	13.03	15.82	82.48	13.48	16.36	85.33	13.93	16.91	88.18
12.59	15.28	79.69	13.04	15.83	82.54	13.49	16.38	85.39	13.94	16.92	88.24
12.60	15.30	79.76	13.05	15.84	82.60	13.50	16.39	85.46	13.95	16.94	88.30
12.61	15.31	79.82	13.06	15.85	82.67	13.51	16.40	85.52	13.96	16.95	88.37
12.62	15.32	79.88	13.07	15.87	82.73	13.52	16.41	85.58	13.97	16.96	88.43
12.63	15.33	79.95	13.08	15.88	82.80	13.53	16.43	85.64	13.98	16.97	88.50
12.64	15.34	80.01	13.09	15.89	82.86	13.54	16.44	85.71	13.99	16.98	88.56
12.65	15.36	80.07	13.10	15.90	82.92	13.55	16.45	85.78	14	17	88.62
12.66	15.37	80.14	13.11	15.92	82.99	13.56	16.46	85.84	14.01	17.01	88.68
12.67	15.38	80.20	13.12	15.93	83.05	13.57	16.47	85.90	14.02	17.02	88.75
12.68	15.39	80.26	13.13	15.94	83.11	13.58	16.49	85.96	14.03	17.03	88.81
12.69	15.41	80.33	13.14	15.95	83.18	13.59	16.50	86.02	14.04	17.04	88.87
12.70	15.42	80.39	13.15	15.96	83.24	13.60	16.51	86.09	14.05	17.06	88.93
12.71	15.43	80.45	13.16	15.98	83.30	13.61	16.52	86.15	14.06	17.07	89
12.72	15.44	80.52	13.17	15.99	83.37	13.62	16.53	86.21	14.07	17.08	89.06
12.73	15.45	80.58	13.18	16	83.43	13.63	16.55	86.28	14.08	17.09	89.13
12.74	15.47	80.64	13.19	16.01	83.50	13.64	16.56	86.34	14.09	17.11	89.19
12.75	15.48	80.71	13.20	16.02	83.56	13.65	16.57	86.41	14.10	17.12	89.25
12.76	15.49	80.77	13.21	16.04	83.62	13.66	16.58	86.47	14.11	17.13	89.32
12.77	15.50	80.83	13.22	16.05	83.68	13.67	16.60	86.53	14.12	17.14	89.38
12.78	15.51	80.90	13.23	16.06	83.75	13.68	16.61	86.59	14.13	17.15	89.44
12.79	15.53	80.96	13.24	16.07	83.81	13.69	16.62	86.66	14.14	17.17	89.51
12.80	15.54	81.02	13.25	16.09	83.87	13.70	16.63	86.72	14.15	17.18	89.57
12.81	15.55	81.09	13.26	16.10	83.94	13.71	16.64	86.78	14.16	17.19	89.63
12.82	15.56	81.15	13.27	16.11	84	13.72	16.66	86.85	14.17	17.20	89.70
12.83	15.58	81.21	13.28	16.12	84.06	13.73	16.67	86.91	14.18	17.21	89.76
12.84	15.59	81.28	13.29	16.13	84.13	13.74	16.68	86.97	14.19	17.23	89.83

NITROGEN, AMMONIA AND ALBUMINOIDS.—*Continued.*

N.	NH_3.	Albuminoids $N \times 6.33$	N.	NH_3.	Albuminoids $N \times 6.33$	N.	NH_3.	Albuminoids $N \times 6.33$	N.	NH_3.	Albuminoids $N \times 6.33$
14.20	17.24	89.89	14.65	17.79	92.73	15.10	18.33	95.58	15.55	18.88	98.44
14.21	17.25	89.95	14.66	17.80	92.80	15.11	18.34	95.65	15.56	18.89	98.50
14.22	17.26	90.01	14.67	17.81	92.86	15.12	18.36	95.71	15.57	18.90	98.56
14.23	17.28	90.08	14.68	17.82	92.92	15.13	18.37	95.77	15.58	18.91	98.62
14.24	17.29	90.14	14.69	17.83	92.99	15.14	18.38	95.84	15.59	18.92	98.68
14.25	17.30	90.20	14.70	17.85	93.05	15.15	18.39	95.90	15.60	18.94	98.75
14.26	17.31	90.27	14.71	17.86	93.11	15.16	18.40	95.96	15.61	18.95	98.81
14.27	17.32	90.33	14.72	17.87	93.18	15.17	18.42	96.03	15.62	18.96	98.87
14.28	17.34	90.39	14.73	17.88	93.24	15.18	18.43	96.09	15.63	18.97	98.94
14.29	17.35	90.46	14.74	17.89	93.30	15.19	18.44	96.16	15.64	18.99	99
14.30	17.36	90.52	14.75	17.91	93.37	15.20	18.45	96.22	15.65	19	99.06
14.31	17.37	90.58	14.76	17.92	93.43	15.21	18.46	96.28	15.66	19.01	99.13
14.32	17.38	90.65	14.77	17.93	93.49	15.22	18.48	96.34	15.67	19.02	99.19
14.33	17.40	90.71	14.78	17.94	93.56	15.23	18.49	96.41	15.68	19.03	99.25
14.34	17.41	90.77	14.79	17.96	93.62	15.24	18.50	96.47	15.69	19.05	99.32
14.35	17.42	90.84	14.80	17.97	93.68	15.25	18.51	96.53	15.70	19.06	99.38
14.36	17.43	90.90	14.81	17.98	93.75	15.26	18.53	96.60	15.71	19.07	99.44
14.37	17.45	90.96	14.82	17.99	93.81	15.27	18.54	96.66	15.72	19.08	99.51
14.38	17.46	91.03	14.83	18	93.87	15.28	18.55	96.72	15.73	19.10	99.57
14.39	17.47	91.09	14.84	18.02	93.94	15.29	18.56	96.79	15.74	19.11	99.63
14.40	17.48	91.15	14.85	18.03	94	15.30	18.57	96.85	15.75	19.12	99.70
14.41	17.49	91.22	14.86	18.04	94.06	15.31	18.59	96.91	15.76	19.13	99.76
14.42	17.51	91.28	14.87	18.05	94.13	15.32	18.60	96.98	15.77	19.14	99.82
14.43	17.52	91.34	14.88	18.06	94.19	15.33	18.61	97.04	15.78	19.16	99.89
14.44	17.53	91.41	14.89	18.08	94.25	15.34	18.62	97.10	15.79	19.17	99.95
14.45	17.54	91.47	14.90	18.09	94.32	15.35	18.63	97.17	15.80	19.18	100.01
14.46	17.55	91.53	14.91	18.10	94.38	15.36	18.65	97.23	15.81	19.19	
14.47	17.57	91.60	14.92	18.11	94.45	15.37	18.66	97.29	15.82	19.20	
14.48	17.58	91.66	14.93	18.13	94.51	15.38	18.67	97.36	15.83	19.22	
14.49	17.59	91.72	14.94	18.14	94.57	15.39	18.68	97.42	15.84	19.23	
14.50	17.60	91.79	14.95	18.15	94.63	15.40	18.70	97.48	15.85	19.24	
14.51	17.62	91.85	14.96	18.16	94.70	15.41	18.71	97.55	15.86	19.25	
14.52	17.63	91.91	14.97	18.17	94.77	15.42	18.72	97.61	15.87	19.27	
14.53	17.64	91.97	14.98	18.19	94.83	15.43	18.73	97.67	15.88	19.28	
14.54	17.65	92.04	14.99	18.20	94.89	15.44	18.74	97.74	15.89	19.29	
14.55	17.66	92.11	15	18.21	94.95	15.45	18.76	97.80	15.90	19.30	
14.56	17.68	92.17	15.01	18.22	95.01	15.46	18.77	97.86	15.91	19.32	
14.57	17.69	92.23	15.02	18.23	95.08	15.47	18.78	97.93	15.92	19.33	
14.58	17.70	92.29	15.03	18.25	95.14	15.48	18.79	97.99	15.93	19.34	
14.59	17.71	92.35	15.04	18.26	95.20	15.49	18.80	98.05	15.94	19.35	
14.60	17.72	92.42	15.05	18.27	95.26	15.50	18.82	98.12	15.95	19.36	
14.61	17.74	92.48	15.06	18.28	95.33	15.51	18.83	98.18	15.96	19.37	
14.62	17.75	92.54	15.07	18.29	95.39	15.52	18.84	98.24	15.97	19.39	
14.63	17.76	92.61	15.08	18.31	95.46	15.53	18.85	98.30	15.98	19.40	
14.64	17.77	92.67	15.09	18.32	95.52	15.54	18.86	98.37	15.99	19.41	
									16	19.42	

TABLE FOR THE CONVERSION OF NITROGEN AND ALBUMINOIDS.

N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.
.00	.00	.41	2.56	.82	5.13	1.23	7.69	1.64	10.25
.01	.06	.42	2.63	.83	5.19	1.24	7.75	1.65	10.31
.02	.13	.43	2.69	.84	5.25	1.25	7.81	1.66	10.38
.03	.19	.44	2.75	.85	5.31	1.26	7.88	1.67	10.44
.04	.25	.45	2.81	.86	5.38	1.27	7.94	1.68	10.50
.05	.31	.46	2.88	.87	5.44	1.28	8.00	1.69	10.56
.06	.38	.47	2.94	.88	5.50	1.29	8.06	1.70	10.63
.07	.44	.48	3.00	.89	5.56	1.30	8.13	1.71	10.69
.08	.50	.49	3.06	.90	5.63	1.31	8.19	1.72	10.75
.09	.56	.50	3.13	.91	5.69	1.32	8.25	1.73	10.81
.10	.63	.51	3.19	.92	5.75	1.33	8.31	1.74	10.88
.11	.69	.52	3.25	.93	5.81	1.34	8.38	1.75	10.94
.12	.75	.53	3.31	.94	5.88	1.35	8.44	1.76	11.00
.13	.81	.54	3.38	.95	5.94	1.36	8.50	1.77	11.06
.14	.88	.55	3.44	.96	6.00	1.37	8.56	1.78	11.13
.15	.94	.56	3.50	.97	6.06	1.38	8.63	1.79	11.19
.16	1.00	.57	3.56	.98	6.13	1.39	8.69	1.80	11.25
.17	1.06	.58	3.63	.99	6.19	1.40	8.75	1.81	11.31
.18	1.13	.59	3.69	1.00	6.25	1.41	8.81	1.82	11.38
.19	1.19	.60	3.75	1.01	6.31	1.42	8.88	1.83	11.44
.20	1.25	.61	3.81	1.02	6.38	1.43	8.94	1.84	11.50
.21	1.31	.62	3.88	1.03	6.44	1.44	9.00	1.85	11.56
.22	1.38	.63	3.94	1.04	6.50	1.45	9.06	1.86	11.63
.23	1.44	.64	4.00	1.05	6.56	1.46	9.13	1.87	11.69
.24	1.50	.65	4.06	1.06	6.63	1.47	9.19	1.88	11.75
.25	1.56	.66	4.13	1.07	6.69	1.48	9.25	1.89	11.81
.26	1.63	.67	4.19	1.08	6.75	1.49	9.31	1.90	11.88
.27	1.69	.68	4.25	1.09	6.81	1.50	9.38	1.91	11.94
.28	1.75	.69	4.31	1.10	6.88	1.51	9.44	1.92	12.00
.29	1.81	.70	4.38	1.11	6.94	1.52	9.50	1.93	12.06
.30	1.88	.71	4.44	1.12	7.00	1.53	9.56	1.94	12.13
.31	1.94	.72	4.50	1.13	7.06	1.54	9.63	1.95	12.19
.32	2.00	.73	4.56	1.14	7.13	1.55	9.69	1.96	12.25
.33	2.06	.74	4.63	1.15	7.19	1.56	9.75	1.97	12.31
.34	2.13	.75	4.69	1.16	7.25	1.57	9.81	1.98	12.38
.35	2.19	.76	4.75	1.17	7.31	1.58	9.88	1.99	12.44
.36	2.25	.77	4.81	1.18	7.38	1.59	9.94	2.00	12.50
.37	2.31	.78	4.88	1.19	7.44	1.60	10.00	2.01	12.56
.38	2.38	.79	4.94	1.20	7.50	1.61	10.06	2.02	12.63
.39	2.44	.80	5.00	1.21	7.56	1.62	10.13	2.03	12.69
.40	2.50	.81	5.06	1.22	7.63	1.63	10.19	2.04	12.75

NITROGEN AND ALBUMINOIDS.—*Continued.*

N.	Albuminoids N×6.25	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.
2.05	12.81	2.46	15.38	2.87	17.94	3.28	20.50	3.69	23.06
2.06	12.88	2.47	15.44	2.88	18.00	3.29	20.56	3.70	23.13
2.07	12.94	2.48	15.50	2.89	18.06	3.30	20.63	3.71	23.19
2.08	13.00	2.49	15.56	2.90	18.13	3.31	20.69	3.72	23.25
2.09	13.06	2.50	15.63	2.91	18.19	3.32	20.75	3.73	23.31
2.10	13.13	2.51	15.69	2.92	18.25	3.33	20.81	3.74	23.38
2.11	13.19	2.52	15.75	2.93	18.31	3.34	20.88	3.75	23.44
2.12	13.25	2.53	15.81	2.94	18.38	3.35	20.94	3.76	23.50
2.13	13.31	2.54	15.88	2.95	18.44	3.36	21.00	3.77	23.56
2.14	13.38	2.55	15.94	2.96	18.50	3.37	21.06	3.78	23.63
2.15	13.44	2.56	16.00	2.97	18.56	3.38	21.13	3.79	23.69
2.16	13.50	2.57	16.06	2.98	18.63	3.39	21.19	3.80	23.75
2.17	13.56	2.58	16.13	2.99	18.69	3.40	21.25	3.81	23.81
2.18	13.63	2.59	16.19	3.00	18.75	3.41	21.31	3.82	23.88
2.19	13.69	2.60	16.25	3.01	18.81	3.42	21.38	3.83	23.94
2.20	13.75	2.61	16.31	3.02	18.88	3.43	21.44	3.84	24.00
2.21	13.81	2.62	16.38	3.03	18.94	3.44	21.50	3.85	24.06
2.22	13.88	2.63	16.44	3.04	19.00	3.45	21.56	3.86	24.13
2.23	13.94	2.64	16.50	3.05	19.06	3.46	21.63	3.87	24.19
2.24	14.00	2.65	16.56	3.06	19.13	3.47	21.69	3.88	24.25
2.25	14.06	2.66	16.63	3.07	19.19	3.48	21.75	3.89	24.31
2.26	14.13	2.67	16.69	3.08	19.25	3.49	21.81	3.90	24.38
2.27	14.19	2.68	16.75	3.09	19.31	3.50	21.88	3.91	24.44
2.28	14.25	2.69	16.81	3.10	19.38	3.51	21.94	3.92	24.50
2.29	14.31	2.70	16.88	3.11	19.44	3.52	22.00	3.93	24.56
2.30	14.38	2.71	16.94	3.12	19.50	3.53	22.06	3.94	24.63
2.31	14.44	2.72	17.00	3.13	19.56	3.54	22.13	3.95	24.69
2.32	14.50	2.73	17.06	3.14	19.63	3.55	22.19	3.96	24.75
2.33	14.56	2.74	17.13	3.15	19.69	3.56	22.25	3.97	24.81
2.34	14.63	2.75	17.19	3.16	19.75	3.57	22.31	3.98	24.88
2.35	14.69	2.76	17.25	3.17	19.81	3.58	22.38	3.99	24.94
2.36	14.75	2.77	17.31	3.18	19.88	3.59	22.44	4.00	25.00
2.37	14.81	2.78	17.38	3.19	19.94	3.60	22.50	4.01	25.06
2.38	14.88	2.79	17.44	3.20	20.00	3.61	22.56	4.02	25.13
2.39	14.94	2.80	17.50	3.21	20.06	3.62	22.63	4.03	25.19
2.40	15.00	2.81	17.56	3.22	20.13	3.63	22.69	4.04	25.25
2.41	15.06	2.82	17.63	3.23	20.19	3.64	22.75	4.05	25.31
2.42	15.13	2.83	17.69	3.24	20.25	3.65	22.81	4.06	25.38
2.43	15.19	2.84	17.75	3.25	20.31	3.66	22.88	4.07	25.44
2.44	15.25	2.85	17.81	3.26	29.38	3.67	22.94	4.08	25.50
2.45	15.31	2.86	17.88	3.27	20.44	3.68	23.00	4.09	25.56

NITROGEN AND ALBUMINOIDS.—*Continued.*

N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.
4.10	25.63	4.51	28.19	4.92	30.75	5.33	33.31	5.74	35.88
4.11	25.69	4.52	28.25	4.93	30.81	5.34	33.38	5.75	35.94
4.12	25.75	4.53	28.31	4.94	30.88	5.35	33.44	5.76	36.00
4.13	25.81	4.54	28.38	4.95	30.94	5.36	33.50	5.77	36.06
4.14	25.88	4.55	28.44	4.96	31.00	5.37	33.56	5.78	36.13
4.15	25.94	4.56	28.50	4.97	31.06	5.38	33.63	5.79	36.19
4.16	26.00	4.57	28.56	4.98	31.13	5.39	33.69	5.80	36.25
4.17	26.06	4.58	28.63	4.99	31.19	5.40	33.75	5.81	36.31
4.18	26.13	4.59	28.69	5.00	31.25	5.41	33.81	5.82	36.38
4.19	26.19	4.60	28.75	5.01	31.31	5.42	33.88	5.83	36.44
4.20	26.25	4.61	28.81	5.02	31.38	5.43	33.94	5.84	36.50
4.21	26.31	4.62	28.88	5.03	31.44	5.44	34.00	5.85	36.56
4.22	26.38	4.63	28.94	5.04	31.50	5.45	34.06	5.86	36.63
4.23	26.44	4.64	29.00	5.05	31.56	5.46	34.13	5.87	36.69
4.24	26.50	4.65	29.06	5.06	31.63	5.47	34.19	5.88	36.75
4.25	26.56	4.66	29.13	5.07	31.69	5.48	34.25	5.89	36.81
4.26	26.63	4.67	29.19	5.08	31.75	5.49	34.31	5.90	36.88
4.27	26.69	4.68	29.25	5.09	31.81	5.50	34.38	5.91	36.94
4.28	26.75	4.69	29.31	5.10	31.88	5.51	34.44	5.92	37.00
4.29	26.81	4.70	29.38	5.11	31.94	5.52	34.50	5.93	37.06
4.30	26.88	4.71	29.44	5.12	32.00	5.53	34.56	5.94	37.13
4.31	26.94	4.72	29.50	5.13	32.06	5.54	34.63	5.95	37.19
4.32	27.00	4.73	29.56	5.14	32.13	5.55	34.69	5.96	37.25
4.33	27.06	4.74	29.63	5.15	32.19	5.56	34.75	5.97	37.31
4.34	27.13	4.75	29.69	5.16	32.25	5.57	34.81	5.98	37.38
4.35	27.19	4.76	29.75	5.17	32.31	5.58	34.88	5.99	37.44
4.36	27.25	4.77	29.81	5.18	32.38	5.59	34.94	6.00	37.50
4.37	27.31	4.78	29.88	5.19	32.44	5.60	35.00	6.01	37.56
4.38	27.38	4.79	29.94	5.20	32.50	5.61	35.06	6.02	37.63
4.39	27.44	4.80	30.00	5.21	32.56	5.62	35.13	6.03	37.69
4.40	27.50	4.81	30.06	5.22	32.63	5.63	35.19	6.04	37.75
4.41	27.56	4.82	30.13	5.23	32.69	5.64	35.25	6.05	37.81
4.42	27.63	4.83	30.19	5.24	32.75	5.65	35.31	6.06	37.88
4.43	27.69	4.84	30.25	5.25	32.81	5.66	35.38	6.07	37.94
4.44	27.75	4.85	30.31	5.26	32.88	5.67	35.44	6.08	38.00
4.45	27.81	4.86	30.38	5.27	32.94	5.68	35.50	6.09	38.06
4.46	27.88	4.87	30.44	5.28	33.00	5.69	35.56	6.10	38.13
4.47	27.94	4.88	30.50	5.29	33.06	5.70	35.63	6.11	38.19
4.48	28.00	4.89	30.56	5.30	33.13	5.71	35.69	6.12	38.25
4.49	28.06	4.90	30.63	5.31	33.19	5.72	35.75	6.13	38.31
4.50	28.13	4.91	30.69	5.32	33.25	5.73	35.81	6.14	38.38

NITROGEN AND ALBUMINOIDS.—*Continued.*

N.	Albu-minoids N×6.25.	N.	Albu-minoids N×6.25.	N.	Albu. minoids N×6.25.	N.	Albu-minoids N×6.25.	N.	Albu-minoids N×6.25.
6.15	38.44	6.56	41.00	6.97	43.56	7.38	46.13	7.79	48.69
6.16	38.50	6.57	41.06	6.98	43.63	7.39	46.19	7.80	48.75
6.17	38.56	6.58	41.13	6.99	43.69	7.40	46.25	7.81	48.81
6.18	38.63	6.59	41.19	7.00	43.75	7.41	46.31	7.82	48.88
6.19	38.69	6.60	41.25	7.01	43 81	7.42	46.38	7.83	48.94
6.20	38.75	6.61	41.31	7.02	43.88	7.43	46.44	7.84	49.00
6.21	38.81	6.62	41.38	7.03	43.94	7.44	46.50	7.85	49.06
6.22	38.88	6.63	41.44	7.04	44.00	7.45	46.56	7.86	49.13
6.23	38.94	6.64	41.50	7.05	44.06	7.46	46.63	7.87	49.19
6.24	39.00	6.65	41.56	7 06	44.13	7.47	46.69	7.88	49.25
6.25	39.06	6.66	41.63	7.07	44.19	7.48	46.75	7.89	49.31
6.26	39.13	6.67	41.69	7.08	44.25	7.49	46.81	7.90	49.38
6.27	39.19	6.68	41.75	7.09	44.31	7.50	46.88	7.91	49.44
6.28	39.25	6.69	41.81	7.10	44.38	7.51	46.94	7.92	49.50
6.29	39.31	6.70	41.88	7.11	44.44	7.52	47.00	7.93	49.56
6.30	39.38	6.71	41.94	7.12	44.50	7.53	47.06	7.94	49.63
6.31	39.44	6.72	42.00	7.13	44.56	7.54	47.13	7.95	49.69
6.32	39.50	6.73	42.06	7.14	44.63	7.55	47.19	7.96	49.75
6.33	39.56	6.74	42.13	7.15	44.69	7.56	47.25	7.97	49.81
6.34	39.63	6.75	42.19	7.16	44.75	7.57	47.31	7.98	49.88
6.35	39.69	6.76	42.25	7.17	44.81	7.58	47.38	7.99	49.94
6.36	39.75	6.77	42.31	7.18	44.88	7.59	47.44	8.00	50.00
6.37	39.81	6.78	42.38	7.19	44.94	7.60	47.50	8.01	50.06
6.38	39.88	6.79	42.44	7.20	45.00	7.61	47.56	8.02	50.13
6.39	39.94	6.80	42.50	7.21	45.06	7.62	47.63	8.03	50.19
6.40	40.00	6.81	42.56	7.22	45.13	7.63	47.69	8.04	50.25
6.41	40.06	6.82	42.63	7.23	45.19	7.64	47.75	8.05	50.31
6.42	40.13	6.83	42.69	7.24	45.25	7.65	47.81	8.06	50.38
6.43	40.19	6.84	42.75	7.25	45.31	7.66	47.88	8.07	50.44
6.44	40.25	6.85	42.81	7.26	45.38	7.67	47.94	8.08	50.50
6.45	40.31	6.86	42.88	7.27	45.44	7.68	48.00	8.09	50.56
6.46	40.38	6.87	42.94	7.28	45.50	7.69	48.06	8.10	50.63
6.47	40.44	6.88	43.00	7.29	45.56	7.70	48.13	8.11	50.69
6.48	40.50	6.89	43.06	7.30	45.63	7.71	48.19	8.12	50.75
6.49	40.56	6.90	43.13	7.31	45.69	7.72	48.25	8.13	50 81
6.50	40.63	6.91	43.19	7.32	45.75	7.73	48.31	8.14	50.88
6 51	40.69	6.92	43.25	7.33	45 81	7.74	48.38	8.15	50.94
6.52	40.75	6.93	43.31	7.34	45.88	7.75	48.44	8.16	51.00
6.53	40.81	6.94	43.38	7.35	45.94	7.76	48.50	8.17	51.06
6.54	40.88	6.95	43.44	7.36	46 00	7.77	48.56	8.18	51.13
6.55	40.94	6.96	43.50	7.37	46.06	7.78	48.63	8.19	51.19

NITROGEN AND ALBUMINOIDS.—*Continued.*

N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.
8.20	51.25	8.61	53.81	9.02	56.38	9.43	58.94	9.84	61.50
8.21	51.31	8.62	53.88	9.03	56.44	9.44	59.00	9.85	61.56
8.22	51.38	8.63	53.94	9.04	56.50	9.45	59.06	9.86	61.63
8.23	51.44	8.64	54.00	9.05	56.56	9.46	59.13	9.87	61.69
8.24	51.50	8.65	54.06	9.06	56.63	9.47	59.19	9.88	61.75
8.25	51.56	8.66	54.13	9.07	56.69	9.48	59.25	9.89	61.81
8.26	51.63	8.67	54.19	9.08	56.75	9.49	59.31	9.90	61.88
8.27	51.69	8.68	54.25	9.09	56.81	9.50	59.38	9.91	61.94
8.28	51.75	8.69	54.31	9.10	56.88	9.51	59.44	9.92	62.00
8.29	51.81	8.70	54.38	9.11	56.94	9.52	59.50	9.93	62.06
8.30	51.88	8.71	54.44	9.12	57.00	9.53	59.56	9.94	62.13
8.31	51.94	8.72	54.50	9.13	57.06	9.54	59.63	9.95	62.19
8.32	52.00	8.73	54.56	9.14	57.13	9.55	59.69	9.96	62.25
8.33	52.06	8.74	54.63	9.15	57.19	9.56	59.75	9.97	62.31
8.34	52.13	8.75	54.69	9.16	57.25	9.57	59.81	9.98	62.38
8.35	52.19	8.76	54.75	9.17	57.31	9.58	59.88	9.99	62.44
8.36	52.25	8.77	54.81	9.18	57.38	9.59	59.94	10.00	62.50
8.37	52.31	8.78	54.88	9.19	57.44	9.60	60.00	10.01	62.56
8.38	52.38	8.79	54.94	9.20	57.50	9.61	60.06	10.02	62.63
8.39	52.44	8.80	55.00	9.21	57.56	9.62	60.13	10.03	62.69
8.40	52.50	8.81	55.06	9.22	57.63	9.63	60.19	10.04	62.75
8.41	52.56	8.82	55.13	9.23	57.69	9.64	60.25	10.05	62.81
8.42	52.63	8.83	55.19	9.24	57.75	9.65	60.31	10.06	62.88
8.43	52.69	8.84	55.25	9.25	57.81	9.66	60.38	10.07	62.94
8.44	52.75	8.85	55.31	9.26	57.88	9.67	60.44	10.08	63.00
8.45	52.81	8.86	55.38	9.27	57.94	9.68	60.50	10.09	63.06
8.46	52.88	8.87	55.44	9.28	58.00	9.69	60.56	10.10	63.13
8.47	52.94	8.88	55.50	9.29	58.06	9.70	60.63	10.11	63.19
8.48	53.00	8.89	55.56	9.30	58.13	9.71	60.69	10.12	63.25
8.49	53.06	8.90	55.63	9.31	58.19	9.72	60.75	10.13	63.31
8.50	53.13	8.91	55.69	9.32	58.25	9.73	60.81	10.14	63.38
8.51	53.19	8.92	55.75	9.33	58.31	9.74	60.88	10.15	63.44
8.52	53.25	8.93	55.81	9.34	58.38	9.75	60.94	10.16	63.50
8.53	53.31	8.94	55.88	9.35	58.44	9.76	61.00	10.17	63.56
8.54	53.38	8.95	55.94	9.36	58.50	9.77	61.06	10.18	63.63
8.55	53.44	8.96	56.00	9.37	58.56	9.78	61.13	10.19	63.69
8.56	53.50	8.97	56.06	9.38	58.63	9.79	61.19	10.20	63.75
8.57	53.56	8.98	56.13	9.39	58.69	9.80	61.25	10.21	63.81
8.58	53.63	8.99	56.19	9.40	58.75	9.81	61.31	10.22	63.88
8.59	53.69	9.00	56.25	9.41	58.81	9.82	61.38	10.23	63.94
8.60	53.75	9.01	56.31	9.42	58.88	9.83	61.44	10.24	64.00

NITROGEN AND ALBUMINOIDS.—*Continued.*

N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.
10.25	64.06	10.66	66.63	11.07	69.19	11.48	71.75	11.89	74.31
10.26	64.13	10.67	66.69	11.08	69.25	11.49	71.81	11.90	74.38
10.27	64.19	10.68	66.75	11.09	69.31	11.50	71.88	11.91	74.44
10.28	64.25	10.69	66.81	11.10	69.38	11.51	71.94	11.92	74.50
10.29	64.31	10.70	66.88	11.11	69.44	11.52	72.00	11.93	74.56
10.30	64.38	10.71	66.94	11.12	69.50	11.53	72.06	11.94	74.63
10.31	64.44	10.72	67.00	11.13	69.56	11.54	72.13	11.95	74.69
10.32	64.50	10.73	67.06	11.14	69.63	11.55	72.19	11.96	74.75
10.33	64.56	10.74	67.13	11.15	69.69	11.56	72.25	11.97	74.81
10.34	64.63	10.75	67.19	11.16	69.75	11.57	72.31	11.98	74.88
10.35	64.69	10.76	67.25	11.17	69.81	11.58	72.38	11.99	74.94
10.36	64.75	10.77	67.31	11.18	69.88	11.59	72.44	12.00	75.00
10.37	64.81	10.78	67.38	11.19	69.94	11.60	72.50	12.01	75.06
10.38	64.88	10.79	67.44	11.20	70.00	11.61	72.56	12.02	75.13
10.39	64.94	10.80	67.50	11.21	70.06	11.62	72.63	12.03	75.19
10.40	65.00	10.81	67.56	11.22	70.13	11.63	72.69	12.04	75.25
10.41	65.06	10.82	67.63	11.23	70.19	11.64	72.75	12.05	75.31
10.42	65.13	10.83	67.69	11.24	70.25	11.65	72.81	12.06	75.38
10.43	65.19	10.84	67.75	11.25	70.31	11.66	72.88	12.07	75.44
10.44	65.25	10.85	67.81	11.26	70.38	11.67	72.94	12.08	75.50
10.45	65.31	10.86	67.88	11.27	70.44	11.68	73.00	12.09	75.56
10.46	65.38	10.87	67.94	11.28	70.50	11.69	73.06	12.10	75.63
10.47	65.44	10.88	68.00	11.29	70.56	11.70	73.13	12.11	75.69
10.48	65.50	10.89	68.06	11.30	70.63	11.71	73.19	12.12	75.75
10.49	65.56	10.90	68.13	11.31	70.69	11.72	73.25	12.13	75.81
10.50	65.63	10.91	68.19	11.32	70.75	11.73	73.31	12.14	75.88
10.51	65.69	10.92	68.25	11.33	70.81	11.74	73.38	12.15	75.94
10.52	65.75	10.93	68.31	11.34	70.88	11.75	73.44	12.16	76.00
10.53	65.81	10.94	68.38	11.35	70.94	11.76	73.50	12.17	76.06
10.54	65.88	10.95	68.44	11.36	71.00	11.77	73.56	12.18	76.13
10.55	65.94	10.96	68.50	11.37	71.06	11.78	73.63	12.19	76.19
10.56	66.00	10.97	68.56	11.38	71.13	11.79	73.69	22.20	76.25
10.57	66.06	10.98	68.63	11.39	71.19	11.80	73.75	12.21	76.31
10.58	66.13	10.99	68.69	11.40	71.25	11.81	73.81	12.22	76.38
10.59	66.19	11.00	68.75	11.41	71.31	11.82	73.88	12.23	76.44
10.60	66.25	11.01	68.81	11.42	71.38	11.83	73.94	12.24	76.50
10.61	66.31	11.02	68.88	11.43	71.44	11.84	74.00	12.25	76.56
10.62	66.38	11.03	68.94	11.44	71.50	11.85	74.06	12.26	76.63
10.63	66.44	11.04	69.00	11.45	71.56	11.86	74.13	12.27	76.69
10.64	66.50	11.05	69.06	11.46	71.63	11.87	74.19	12.28	76.75
10.65	66.56	11.06	69.13	11.47	71.69	11.88	74.25	12.29	76.81

NITROGEN AND ALBUMINOIDS.—*Continued.*

N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.
12.30	76.88	12.71	79.44	13.12	82.00	13.53	84.56	13.94	87.13
12.31	76.94	12.72	79.50	13.13	82.06	13.54	84.63	13.95	87.19
12.32	77.00	12.73	79.56	13.14	82.13	13.55	84.69	13.96	87.25
12.33	77.06	12.74	79.63	13.15	82.19	13.56	84.75	13.97	87.31
12.34	77.13	12.75	79.69	13.16	82.25	13.57	84.81	13.98	87.38
12.35	77.19	12.76	79.75	13.17	82.31	13.58	84.88	13.99	87.44
12.36	77.25	12.77	79.81	13.18	82.38	13.59	84.94	14.00	87.50
12.37	77.31	12.78	79.88	13.19	82.44	13.60	85.00	14.01	87.56
12.38	77.38	12.79	79.94	13.20	82.50	13.61	85.06	14.02	87.63
12.39	77.44	12.80	80.00	13.21	82.56	13.62	85.13	14.03	87.69
12.40	77.50	12.81	80.06	13.22	82.63	13.63	85.19	14.04	87.75
12.41	77.56	12.82	80.13	13.23	82.69	13.64	85.25	14.05	87.81
12.42	77.63	12.83	80.19	13.24	82.75	13.65	85.31	14.06	87.88
12.43	77.69	12.84	80.25	13.25	82.81	13.66	85.38	14.07	87.94
12.44	77.75	12.85	80.31	13.26	82.88	13.67	85.44	14.08	88.00
12.45	77.81	12.86	80.38	13.27	82.94	13.68	85.50	14.09	88.06
12.46	77.88	12.87	80.44	13.28	83.00	13.69	85.56	14.10	88.13
12.47	77.94	12.88	80.50	13.29	83.06	13.70	85.63	14.11	88.19
12.48	78.00	12.89	80.56	13.30	83.13	13.71	85.69	14.12	88.25
12.49	78.06	12.90	80.63	13.31	83.19	13.72	85.75	14.13	88.31
12.50	78.13	12.91	80.69	13.32	83.25	13.73	85.81	14.14	88.38
12.51	78.19	12.92	80.75	13.33	83.31	13.74	85.88	14.15	88.44
12.52	78.25	12.93	80.81	13.34	83.37	13.75	85.94	14.16	88.50
12.53	78.31	12.94	80.88	13.35	83.44	13.76	86.00	14.17	88.56
12.54	78.38	12.95	80.94	13.36	83.50	13.77	86.06	14.18	88.63
12.55	78.44	12.96	81.00	13.37	83.56	13.78	86.13	14.19	88.69
12.56	78.50	12.97	81.06	13.38	83.62	13.79	86.19	14.20	88.75
12.57	78.56	12.98	81.13	13.39	83.69	13.80	86.25	14.21	88.81
12.58	78.63	12.99	81.19	13.40	83.75	13.81	86.31	14.22	88.88
12.59	78.69	13.00	81.25	13.41	83.81	13.82	86.38	14.23	88.94
12.60	78.75	13.01	81.31	13.42	83.88	13.83	86.44	14.24	89.00
12.61	78.81	13.02	81.38	13.43	83.94	13.84	86.50	14.25	89.06
12.62	78.88	13.03	81.44	13.44	84.00	13.85	86.56	14.26	89.13
12.63	78.94	13.04	81.50	13.45	84.06	13.86	86.63	14.27	89.19
12.64	79.00	13.05	81.56	13.46	84.13	13.87	86.69	14.28	89.25
12.65	79.06	13.06	81.63	13.47	84.19	13.88	86.75	14.29	89.31
12.66	79.13	13.07	81.69	13.48	84.25	13.89	86.81	14.30	89.38
12.67	79.19	13.08	81.75	13.49	84.31	13.90	86.88	14.31	89.44
12.68	79.25	13.09	81.81	13.50	84.38	13.91	86.94	14.32	89.50
12.69	79.31	13.10	81.88	13.51	84.44	13.92	87.00	14.33	89.56
12.70	79.38	13.11	81.94	13.52	84.50	13.93	87.06	14.34	89.63

NITROGEN AND ALBUMINOIDS.—*Continued.*

N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.	N.	Albuminoids N×6.25.
14.35	89.69	14.69	91.81	15.03	93.94	15.37	96.06	15.71	98.19
14.36	89.75	14.70	91.88	15.04	94.00	15.38	96.13	15.72	98.25
14.37	89.81	14.71	91.94	15.05	94.06	15.39	96.19	15.73	98.31
14.38	89.88	14.72	92.00	15.06	94.13	15.40	96.25	15.74	98.38
14.39	89.94	14.73	92.06	15.07	94.19	15.41	96.31	15.75	98.44
14.40	90.00	14.74	92.13	15.08	94.25	15.42	96.38	15.76	98.50
14.41	90.06	14.75	92.19	15.09	94.31	15.43	96.44	15.77	98.56
14.42	90.13	14.76	92.25	15.10	94.38	15.44	96.50	15.78	98.63
14.43	90.19	14.77	92.31	15.11	94.44	15.45	96.56	15.79	98.69
14.44	90.25	14.78	92.38	15.12	94.50	15.46	96.63	15.80	98.75
14.45	90.31	14.79	92.44	15.13	94.56	15.47	96.69	15.81	98.81
14.46	90.38	14.80	92.50	15.14	94.63	15.48	96.75	15.82	98.88
14.47	90.44	14.81	92.56	15.15	94.69	15.49	96.81	15.83	98.94
14.48	90.50	14.82	92.63	15.16	94.75	15.50	96.88	15.84	99.00
14.49	90.56	14.83	92.69	15.17	94.81	15.51	96.94	15.85	99.06
14.50	90.63	14.84	92.75	15.18	94.88	15.52	97.00	15.86	99.13
14.51	90.69	14.85	92.81	15.19	94.94	15.53	97.06	15.87	99.19
14.52	90.75	14.86	92.88	15.20	95.00	15.54	97.13	15.88	99.25
14.53	90.81	14.87	92.94	15.21	95.06	15.55	97.19	15.89	99.31
14.54	90.88	14.88	93.00	15.22	95.13	15.56	97.25	15.90	99.38
14.55	90.94	14.89	93.06	15.23	95.19	15.57	97.31	15.91	99.44
14.56	91.00	14.90	93.13	15.24	95.25	15.58	97.38	15.92	99.50
14.57	91.06	14.91	93.19	15.25	95.31	15.59	97.44	15.93	99.56
14.58	91.13	14.92	93.25	15.26	95.38	15.60	97.50	15.94	99.63
14.59	91.19	14.93	93.31	15.27	95.44	15.61	97.56	15.95	99.69
14.60	91.25	14.94	93.38	15.28	95.50	15.62	97.63	15.96	99.75
14.61	91.31	14.95	93.44	15.29	95.56	15.63	97.69	15.97	99.81
14.62	91.38	14.96	93.50	15.30	95.63	15.64	97.75	15.98	99.88
14.63	91.44	14.97	93.56	15.31	95.69	15.65	97.81	15.99	99.94
14.64	91.50	14.98	93.63	15.32	95.75	15.66	97.88	16.00	100.00
14.65	91.56	14.99	93.69	15.33	95.81	15.67	97.94		
14.66	91.63	15.00	93.75	15.34	95.88	15.68	98.00		
14.67	91.69	15.01	93.81	15.35	95.94	15.69	98.06		
14.68	91.75	15.02	93.88	15.36	96.00	15.70	98.13		

CONVERSION TABLE FOR K_2PtCl_6 TO K_2O.

K_2PtCl_6.	K_2O.	K_2PtCl_6.	K_2O.	K_2PtCl_6.	K_2O.
.01	.0019	.35	.0679	.68	.1319
.02	.0039	.36	.0698	.69	.1338
.03	.0058	.37	.0718	.70	.1358
.04	.0078	.38	.0737	.71	.1377
.05	.0097	.39	.0756	.72	.1396
.06	.0116	.40	.0776	.73	.1416
.07	.0136	.41	.0795	.74	.1435
.08	.0155	.42	.0815	.75	.1455
.09	.0175	.43	.0834	.76	.1474
.10	.0194	.44	.0853	.77	.1493
.11	.0213	.45	.0873	.78	.1513
.12	.0233	.46	.0892	.79	.1532
.13	.0252	.47	.0912	.80	.1552
.14	.0272	.48	.0931	.81	.1571
.15	.0291	.49	.0950	.82	.1590
.16	.0310	.50	.0970	.83	.1610
.17	.0330	.51	.0989	.84	.1629
.18	.0349	.52	.1009	.85	.1649
.19	.0369	.53	.1028	.86	.1668
.20	.0388	.54	.1047	.87	.1687
.21	.0407	.55	.1067	.88	.1707
.22	.0427	.56	.1086	.89	.1726
.23	.0446	.57	.1106	.90	.1746
.24	.0465	.58	.1125	.91	.1765
.25	.0485	.59	.1144	.92	.1784
.26	.0504	.60	.1164	.93	.1804
.27	.0524	.61	.1183	.94	.1823
.28	.0543	.62	.1202	.95	.1842
.29	.0562	.63	.1222	.96	.1862
.30	.0582	.64	.1241	.97	.1881
.31	.0601	.65	.1261	.98	.1901
.32	.0621	.66	.1280	.99	.1920
.33	.0640	.67	.1299	1.00	.1940
.34	.0659				

REESE LIBRARY OF THE UNIVERSITY OF CALIFORNIA

TO CONVERT K_2PtCl_6 TO K_2O. (*Continued.*)

K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.
1.01	.1959	1.45	.2812	1.89	.3666	2.33	.4520
1.02	.1978	1.46	.2832	1.90	.3685	2.34	.4539
1.03	.1998	1.47	.2851	1.91	.3705	2.35	.4558
1.04	.2017	1.48	.2871	1.92	.3724	2.36	.4578
1.05	.2036	1.49	.2890	1.93	.3744	2.37	.4597
1.06	.2056	1.50	.2909	1.94	.3763	2.38	.4617
1.07	.2075	1.51	.2929	1.95	.3782	2.39	.4636
1.08	.2095	1.52	.2948	1.96	.3802	2.40	.4655
1.09	.2114	1.53	.2968	1.97	.3821	2.41	.4675
1.10	.2133	1.54	.2987	1.98	.3841	2.42	.4694
1.11	.2153	1.55	.3006	1.99	.3860	2.43	.4714
1.12	.2172	1.56	.3026	2	.3879	2.44	.4733
1.13	.2192	1.57	.3045	2.01	.3899	2.45	.4752
1.14	.2211	1.58	.3065	2.02	.3918	2.46	.4772
1.15	.2230	1.59	.3084	2.03	.3938	2.47	.4791
1.16	.2250	1.60	.3103	2.04	.3957	2.48	.4811
1.17	.2269	1.61	.3123	2.05	.3976	2.49	.4830
1.18	.2289	1.62	.3142	2.06	.3996	2.50	.4849
1.19	.2308	1.63	.3162	2.07	.4015	2.51	.4869
1.20	.2327	1.64	.3181	2.08	.4035	2.52	.4888
1.21	.2347	1.65	.3200	2.09	.4054	2.53	.4908
1.22	.2366	1.66	.3220	2.10	.4073	2.54	.4927
1.23	.2386	1.67	.3239	2.11	.4093	2.55	.4946
1.24	.2405	1.68	.3259	2.12	.4112	2.56	.4966
1.25	.2424	1.69	.3278	2.13	.4132	2.57	.4985
1.26	.2444	1.70	.3297	2.14	.4151	2.58	.5005
1.27	.2463	1.71	.3317	2.15	.4170	2.59	.5024
1.28	.2483	1.72	.3336	2.16	.4190	2.60	.5043
1.29	.2502	1.73	.3356	2.17	.4209	2.61	.5063
1.30	.2521	1.74	.3375	2.18	.4229	2.62	.5082
1.31	.2541	1.75	.3394	2.19	.4248	2.63	.5102
1.32	.2560	1.76	.3414	2.20	.4267	2.64	.5121
1.33	.2580	1.77	.3433	2.21	.4287	2.65	.5140
1.34	.2599	1.78	.3453	2.22	.4306	2.66	.5160
1.35	.2618	1.79	.3472	2.23	.4326	2.67	.5179
1.36	.2638	1.80	.3491	2.24	.4345	2.68	.5199
1.37	.2657	1.81	.3511	2.25	.4364	2.69	.5218
1.38	.2677	1.82	.3530	2.26	.4384	2.70	.5237
1.39	.2696	1.83	.3550	2.27	.4403	2.71	.5256
1.40	.2715	1.84	.3569	2.28	.4423	2.72	.5275
1.41	.2735	1.85	.3588	2.29	.4442	2.73	.5295
1.42	.2754	1.86	.3608	2.30	.4461	2.74	.5314
1.43	.2774	1.87	.3627	2.31	.4481	2.75	.5333
1.44	.2793	1.88	.3647	2.32	.4500	2.76	.5353

To Convert K_2PtCl_6 to K_2O. (*Continued.*)

K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.
2.77	.5372	3.23	.6265	3.69	.7157	4.15	.8049
2.78	.5392	3.24	.6284	3.70	.7176	4.16	.8069
2.79	.5411	3.25	.6303	3.71	.7196	4.17	.8088
2.80	.5430	3.26	.6323	3.72	.7215	4.18	.8108
2.81	.5450	3.27	.6342	3.73	.7235	4.19	.8127
2.82	.5469	3.28	.6362	3.74	.7254	4.20	.8146
2.83	.5489	3.29	.6381	3.75	.7273	4.21	.8166
2.84	.5508	3.30	.6400	3.76	.7293	4.22	.8185
2.85	.5527	3.31	.6420	3.77	.7312	4.23	.8205
2.86	.5547	3.32	.6439	3.78	.7332	4.24	.8224
2.87	.5566	3.33	.6459	3.79	.7351	4.25	.8243
2.88	.5586	3.34	.6478	3.80	.7370	4.26	.8263
2.89	.5605	3.35	.6497	3.81	.7390	4.27	.8282
2.90	.5624	3.36	.6517	3.82	.7409	4.28	.8302
2.91	.5644	3.37	.6536	3.83	.7429	4.29	.8321
2.92	.5663	3.38	.6556	3.84	.7448	4.30	.8340
2.93	.5683	3.39	.6575	3 85	.7467	4.31	.8360
2.94	.5702	3.40	.6594	3.86	.7487	4.32	.8379
2.95	.5721	3.41	.6614	3.87	.7506	4.33	.8399
2.96	.5741	3.42	.6633	3.88	.7526	4.34	.8418
2.97	.5760	3 43	.6653	3.89	.7545	4.35	.8437
2.98	.5780	3.44	.6672	3.90	.7564	4.36	.8457
2.99	.5799	3.45	.6691	3.91	.7584	4.37	.8476
3	.5818	3.46	.6711	3.92	.7603	4.38	.8496
3.01	.5838	3.47	.6730	3.93	.7623	4.39	.8515
3.02	.5857	3.48	.6750	3.94	.7642	4.40	.8534
3.03	.5877	3.49	.6769	3.95	.7661	4.41	.8554
3.04	.5896	3.50	.6788	3.96	.7681	4.42	.8573
3.05	.5915	3.51	.6808	3.97	.7700	4.43	.8593
3.06	.5935	3.52	.6827	3.98	.7720	4.44	.8612
3.07	.5954	3.53	.6847	3.99	.7739	4.45	.8631
3.08	.5974	3.54	.6866	4	.7758	4.46	.8651
3.09	.5993	3.55	.6885	4.01	.7778	4.47	.8670
3.10	.6012	3.56	.6905	4.02	.7797	4.48	.8690
3.11	.6032	3.57	.6924	4.03	.7817	4.49	.8709
3.12	.6051	3.58	.6944	4.04	.7836	4.50	.8728
3.13	.6071	3.59	.6963	4.05	.7855	4.51	.8748
3.14	.6090	3.60	.6982	4.06	.7875	4.52	.8767
3.15	.6109	3.61	.7002	4.07	.7894	4.53	.8787
3.16	.6129	3.62	.7021	4.08	.7914	4.54	.8806
3.17	.6148	3.63	.7041	4.09	.7933	4.55	.8825
3.18	.6168	3.64	.7060	4.10	.7952	4.56	.8845
3.19	.6187	3.65	.7079	4.11	.7972	4.57	.8864
3.20	.6206	3.66	.7099	4.12	.7991	4.58	.8884
3.21	.6226	3.67	.7118	4.13	.8011	4.59	.8903
3.22	.6245	3.68	.7138	4.14	.8030	4.60	.8922

To Convert K_2PtCl_6 to K_2O. (*Continued.*)

K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.
4.61	.8942	5.07	.9833	5.53	1.0726	5.99	1.1618
4.62	.8961	5.08	.9853	5.54	1.0745	6	1.1637
4.63	.8981	5.09	.9872	5.55	1.0764	6.01	1.1657
4.64	.9000	5.10	.9891	5.56	1.0784	6.02	1.1676
4.65	.9019	5.11	.9911	5.57	1.0803	6.03	1.1696
4.66	.9039	5.12	.9930	5.58	1.0823	6.04	1.1715
4.67	.9058	5.13	.9950	5.59	1.0842	6.05	1.1734
4.68	.9078	5.14	.9969	5.60	1.0861	6.06	1.1754
4.69	.9097	5.15	.9988	5.61	1.0881	6.07	1.1773
4.70	.9116	5.16	1.0008	5.62	1.0900	6.08	1.1793
4.71	.9135	5.17	1.0027	5.63	1.0920	6.09	1.1812
4.72	.9154	5.18	1.0047	5.64	1.0939	6.10	1.1831
4.73	.9174	5.19	1.0066	5.65	1.0958	6.11	1.1851
4.74	.9193	5.20	1.0085	5.66	1.0978	6.12	1.1870
4.75	.9212	5.21	1.0105	5.67	1.0997	6.13	1.1890
4.76	.9232	5.22	1.0124	5.68	1.1017	6.14	1.1909
4.77	.9251	5.23	1.0144	5.69	1.1036	6.15	1.1928
4.78	.9271	5.24	1.0163	5.70	1.1055	6.16	1.1948
4.79	.9290	5.25	1.0182	5.71	1.1075	6.17	1.1967
4.80	.9309	5.26	1.0202	5.72	1.1094	6.18	1.1987
4.81	.9329	5.27	1.0221	5.73	1.1114	6.19	1.2006
4.82	.9348	5.28	1.0241	5.74	1.1133	6.20	1.2025
4.83	.9368	5.29	1.0260	5.75	1.1152	6.21	1.2045
4.84	.9387	5.30	1.0279	5.76	1.1172	6.22	1.2064
4.85	.9406	5.31	1.0299	5.77	1.1191	6.23	1.2084
4.86	.9426	5.32	1.0318	5.78	1.1211	6.24	1.2103
4.87	.9445	5.33	1.0338	5.79	1.1230	6.25	1.2122
4.88	.9465	5.34	1.0357	5.80	1.1249	6.26	1.2142
4.89	.9484	5.35	1.0376	5.81	1.1269	6.27	1.2161
4.90	.9503	5.36	1.0396	5.82	1.1288	6.28	1.2181
4.91	.9523	5.37	1.0415	5.83	1.1308	6.29	1.2200
4.92	.9542	5.38	1.0435	5.84	1.1327	6.30	1.2219
4.93	.9562	5.39	1.0454	5.85	1.1346	6.31	1.2239
4.94	.9581	5.40	1.0473	5.86	1.1366	6.32	1.2258
4.95	.9600	5.41	1.0493	5.87	1.1385	6.33	1.2278
4.96	.9620	5.42	1.0512	5.88	1.1405	6.34	1.2297
4.97	.9639	5.43	1.0532	5.89	1.1424	6.35	1.2316
4.98	.9659	5.44	1.0551	5.90	1.1443	6.36	1.2336
4.99	.9678	5.45	1.0570	5.91	1.1463	6.37	1.2355
5	.9697	5.46	1.0590	5.92	1.1482	6.38	1.2375
5.01	.9717	5.47	1.0609	5.93	1.1502	6.39	1.2394
5.02	.9736	5.48	1.0629	5.94	1.1521	6.40	1.2413
5.03	.9756	5.49	1.0648	5.95	1.1540	6.41	1.2433
5.04	.9775	5.50	1.0667	5.96	1.1560	6.42	1.2452
5.05	.9794	5.51	1.0687	5.97	1.1579	6.43	1.2472
5.06	.9814	5.52	1.0706	5.98	1.1599	6.44	1.2491

TO CONVERT K_2PtCl_6 TO K_2O. (*Continued.*)

K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.
6.45	1.2510	6.91	1.3402	7.37	1.4294	7.83	1.5187
6.46	1.2530	6.92	1.3421	7.38	1.4314	7.84	1.5206
6.47	1.2549	6.93	1.3441	7.39	1.4333	7.85	1.5225
6.48	1.2569	6.94	1.3460	7.40	1.4352	7.86	1.5245
6.49	1.2588	6.95	1.3479	7.41	1.4372	7.87	1.5264
6.50	1.2607	6.96	1.3499	7.42	1.4391	7.88	1.5284
6.51	1.2626	6.97	1.3518	7.43	1.4411	7.89	1.5303
6.52	1.2645	6.98	1.3538	7.44	1.4430	7.90	1.5322
6.53	1.2665	6.99	1.3557	7.45	1.4449	7.91	1.5342
6.54	1.2684	7	1.3576	7.46	1.4469	7.92	1.5361
6.55	1.2703	7.01	1.3596	7.47	1.4488	7.93	1.5381
6.56	1.2722	7.02	1.3615	7.48	1.4508	7.94	1.5400
6.57	1.2742	7.03	1.3635	7.49	1.4527	7.95	1.5419
6.58	1.2762	7.04	1.3654	7.50	1.4546	7.96	1.5439
6.59	1.2781	7.05	1.3673	7.51	1.4566	7.97	1.5458
6.60	1.2800	7.06	1.3693	7.52	1.4585	7.98	1.5478
6.61	1.2820	7.07	1.3712	7.53	1.4605	7.99	1.5497
6.62	1.2839	7.08	1.3732	7.54	1.4624	8	1.5516
6.63	1.2859	7.09	1.3751	7.55	1.4643	8.01	1.5536
6.64	1.2878	7.10	1.3770	7.56	1.4663	8.02	1.5555
6.65	1.2897	7.11	1.3790	7.57	1.4682	8.03	1.5575
6.66	1.2917	7.12	1.3809	7.58	1.4702	8.04	1.5594
6.67	1.2936	7.13	1.3829	7.59	1.4721	8.05	1.5613
6.68	1.2956	7.14	1.3848	7.60	1.4740	8.06	1.5633
6.69	1.2975	7.15	1.3867	7.61	1.4760	8.07	1.5652
6.70	1.2994	7.16	1.3887	7.62	1.4779	8.08	1.5672
6.71	1.3014	7.17	1.3906	7.63	1.4799	8.09	1.5691
6.72	1.3033	7.18	1.3926	7.64	1.4818	8.10	1.5710
6.73	1.3053	7.19	1.3945	7.65	1.4837	8.11	1.5730
6.74	1.3072	7.20	1.3964	7.66	1.4857	8.12	1.5749
6.75	1.3091	7.21	1.3984	7.67	1.4876	8.13	1.5769
6.76	1.3111	7.22	1.4003	7.68	1.4896	8.14	1.5788
6.77	1.3130	7.23	1.4023	7.69	1.4915	8.15	1.5807
6.78	1.3150	7.24	1.4042	7.70	1.4934	8.16	1.5827
6.79	1.3169	7.25	1.4061	7.71	1.4954	8.17	1.5846
6.80	1.3188	7.26	1.4081	7.72	1.4973	8.18	1.5866
6.81	1.3208	7.27	1.4100	7.73	1.4993	8.19	1.5885
6.82	1.3227	7.28	1.4120	7.74	1.5012	8.20	1.5904
6.83	1.3247	7.29	1.4139	7.75	1.5031	8.21	1.5924
6.84	1.3266	7.30	1.4158	7.76	1.5051	8.22	1.5943
6.85	1.3285	7.31	1.4178	7.77	1.5070	8.23	1.5963
6.86	1.3305	7.32	1.4197	7.78	1.5090	8.24	1.5982
6.87	1.3324	7.33	1.4217	7.79	1.5109	8.25	1.6001
6.88	1.3344	7.34	1.4236	7.80	1.5128	8.26	1.6021
6.89	1.3363	7.35	1.4255	7.81	1.5148	8.27	1.6040
6.90	1.3382	7.36	1.4275	7.82	1.5167	8.28	1.6060

TO CONVERT K_2PtCl_6 TO K_2O. (*Continued.*)

K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.	K_2PtCl_6	K_2O.
8.29	1.6079	8.74	1.6951	9.19	1.7824	9.64	1.8697
8.30	1.6098	8.75	1.6970	9.20	1.7843	9.65	1.8716
8.31	1.6118	8.76	1.6990	9.21	1.7863	9.66	1.8736
8.32	1.6137	8.77	1.7009	9.22	1.7882	9.67	1.8755
8.33	1.6157	8.78	1.7029	9.23	1.7902	9.68	1.8775
8.34	1.6176	8.79	1.7048	9.24	1.7921	9.69	1.8794
8.35	1.6195	8.80	1.7067	9.25	1.7940	9.70	1.8813
8.36	1.6215	8.81	1.7087	9.26	1.7960	9.71	1.8833
8.37	1.6234	8.82	1.7106	9.27	1.7979	9.72	1.8852
8.38	1.6254	8.83	1.7126	9.28	1.7999	9.73	1.8872
8.39	1.6273	8.84	1.7145	9.29	1.8018	9.74	1.8891
8.40	1.6292	8.85	1.7164	9.30	1.8037	9.75	1.8910
8.41	1.6312	8.86	1.7184	9.31	1.8057	9.76	1.8930
8.42	1.6331	8.87	1.7203	9.32	1.8076	9.77	1.8949
8.43	1.6351	8.88	1.7223	9.33	1.8096	9.78	1.8969
8.44	1.6370	8.89	1.7242	9.34	1.8115	9.79	1.8988
8.45	1.6389	8.90	1.7261	9.35	1.8134	9.80	1.9007
8.46	1.6409	8.91	1.7281	9.36	1.8154	9.81	1.9027
8.47	1.6428	8.92	1.7300	9.37	1.8173	9.82	1.9046
8.48	1.6448	8.93	1.7320	9.38	1.8193	9.83	1.9066
8.49	1.6467	8.94	1.7339	9.39	1.8212	9.84	1.9085
8.50	1.6486	8.95	1.7358	9.40	1.8231	9.85	1.9104
8.51	1.6505	8.96	1.7378	9.41	1.8251	9.86	1.9124
8.52	1.6524	8.97	1.7397	9.42	1.8270	9.87	1.9143
8.53	1.6544	8.98	1.7417	9.43	1.8290	9.88	1.9163
8.54	1.6563	8.99	1.7436	9.44	1.8309	9.89	1.9182
8.55	1.6582	9	1.7455	9.45	1.8328	9.90	1.9201
8.56	1.6602	9.01	1.7475	9.46	1.8348	9.91	1.9221
8.57	1.6621	9.02	1.7494	9.47	1.8367	9.92	1.9240
8.58	1.6641	9.03	1.7514	9.48	1.8387	9.93	1.9260
8.59	1.6660	9.04	1.7533	9.49	1.8406	9.94	1.9279
8.60	1.6679	9.05	1.7552	9.50	1.8425	9.95	1.9298
8.61	1.6699	9.06	1.7572	9.51	1.8445	9.96	1.9318
8.62	1.6718	9.07	1.7591	9.52	1.8464	9.97	1.9337
8.63	1.6738	9.08	1.7611	9.53	1.8484	9.98	1.9357
8.64	1.6757	9.09	1.7630	9.54	1.8503	9.99	1.9376
8.65	1.6776	9.10	1.7649	9.55	1.8522	10	1.9395
8.66	1.6796	9.11	1.7669	9.56	1.8542	20	3.8789
8.67	1.6815	9.12	1.7688	9.57	1.8561	30	5.8184
8.68	1.6835	9.13	1.7708	9.58	1.8581	40	7.7579
8.69	1.6854	9.14	1.7727	9.59	1.8600	50	9.6974
8.70	1.6873	9.15	1.7746	9.60	1.8619	60	11.6368
8.71	1.6893	9.16	1.7766	9.61	1.8639	70	13.5763
8.72	1.6912	9.17	1.7785	9.62	1.8658	80	15.5158
8.73	1.6932	9.18	1.7805	9.63	1.8678	90	17.4552

TABLE TO CONVERT $Mg_2P_2O_7$ INTO P_2O_5, $Ca_3P_2O_8$, AND P_2.

$Mg_2P_2O_7$.	P_2O_5.	$Ca_3P_2O_8$.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	$Ca_3P_2O_8$.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	$Ca_3P_2O_8$.	P_2.
.01	.0064	.0140	.0029	.35	.2239	.4890	.0979	.68	.4350	.9501	.1900
.02	.0128	.0279	.0057	.36	.2303	.5030	.1007	.69	.4414	.9641	.1928
.03	.0192	.0419	.0085	.37	.2367	.5170	.1034	.70	.4478	.9781	.1956
.04	.0256	.0559	.0113	.38	.2431	.5309	.1062	.71	.4542	.9920	.1984
.05	.0320	.0698	.0141	.39	.2495	.5449	.1090	.72	.4606	1.0060	.2012
.06	.0384	.0838	.0169	.40	.2559	.5589	.1118	.73	.4669	1.0200	.2040
.07	.0448	.0978	.0197	.41	.2623	.5729	.1146	.74	.4733	1.0339	.2068
.08	.0511	.1117	.0224	.42	.2687	.5868	.1174	.75	.4797	1.0479	.2096
.09	.0575	.1257	.0252	.43	.2751	.6008	.1202	.76	.4861	1.0619	.2124
.10	.0639	.1397	.0280	.44	.2814	.6148	.1230	.77	.4925	1.0759	.2152
.11	.0703	.1536	.0308	.45	.2878	.6288	.1258	.78	.4989	1.0898	.2179
.12	.0767	.1676	.0336	.46	.2942	.6427	.1286	.79	.5053	1.1038	.2207
.13	.0832	.1816	.0364	.47	.3006	.6567	.1314	.80	.5117	1.1178	.2235
.14	.0896	.1956	.0392	.48	.3070	.6707	.1341	.81	.5181	1.1318	.2263
.15	.0959	.2095	.0420	.49	.3134	.6846	.1370	.82	.5245	1.1457	.2291
.16	.1023	.2235	.0448	.50	.3198	.6986	.1397	.83	.5309	1.1597	.2319
.17	.1087	.2375	.0476	.51	.3262	.7126	.1425	.84	.5373	1.1737	.2347
.18	.1151	.2514	.0504	.52	.3326	.7266	.1453	.85	.5437	1.1876	.2375
.19	.1215	.2654	.0532	.53	.3390	.7405	.1481	.86	.5501	1.2016	.2403
.20	.1279	.2794	.0560	.54	.3454	.7545	.1509	.87	.5565	1.2156	.2431
.21	.1343	.2938	.0588	.55	.3518	.7685	.1537	.88	.5629	1.2296	.2459
.22	.1407	.3073	.0615	.56	.3582	.7824	.1565	.89	.5693	1.2435	.2487
.23	.1471	.3213	.0643	.57	.3646	.7964	.1593	.90	.5757	1.2575	.2515
.24	.1535	.3353	.0671	.58	.3710	.8104	.1621	.91	.5821	1.2715	.2542
.25	.1599	.3493	.0699	.59	.3774	.8244	.1649	.92	.5885	1.2854	.2570
.26	.1663	.3633	.0727	.60	.3838	.8383	.1677	.93	.5949	1.2994	.2598
.27	.1727	.3772	.0755	.61	.3902	.8523	.1705	.94	.6013	1.3134	.2626
.28	.1791	.3912	.0783	.62	.3966	.8663	.1733	.95	.6077	1.3274	.2654
.29	.1855	.4052	.0811	.63	.4030	.8802	.1761	.96	.6141	1.3413	.2682
.30	.1919	.4192	.0839	.64	.4094	.8942	.1788	.97	.6205	1.3553	.2710
.31	.1983	.4331	.0867	.65	.4158	.9082	.1816	.98	.6269	1.3693	.2738
.32	.2047	.4471	.0895	.66	.4222	.9222	.1844	.99	.6333	1.3833	.2766
.33	.2111	.4611	.0923	.67	.4286	.9361	.1872	1.00	.6397	1.3972	.2794
.34	.2175	.4751	.0951								

TABLE TO CONVERT $Mg_2P_2O_7$ TO P_2O_5 AND P_2. (*Continued.*)

$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.
1.01	.6460	.2822	1.42	.9083	.3968	1.83	1.1706	.5114
1.02	.6524	.2850	1.43	.9147	.3996	1.84	1.1770	.5142
1.03	.6588	.2878	1.44	.9211	.4024	1.85	1.1833	.5169
1.04	.6652	.2906	1.45	.9275	.4052	1.86	1.1897	.5197
1.05	.6716	.2934	1.46	.9339	.4080	1.87	1.1961	.5225
1.06	.6780	.2962	1.47	.9403	.4108	1.88	1.2025	.5253
1.07	.6844	.2990	1.48	.9467	.4136	1.89	1.2089	.5281
1.08	.6908	.3018	1.49	.9531	.4164	1.90	1.2153	.5309
1.09	.6972	.3046	1.50	.9595	.4191	1.91	1.2217	.5337
1.10	.7036	.3074	1.51	.9659	.4219	1.92	1.2281	.5365
1.11	.7100	.3102	1.52	.9723	.4247	1.93	1.2345	.5393
1.12	.7164	.3130	1.53	.9787	.4275	1.94	1.2409	.5421
1.13	.7228	.3158	1.54	.9851	.4303	1.95	1.2473	.5449
1.14	.7292	.3186	1.55	.9915	.4331	1.96	1.2537	.5477
1.15	.7356	.3213	1.56	.9979	.4359	1.97	1.2601	.5505
1.16	.7420	.3241	1.57	1.0043	.4387	1.98	1.2665	.5533
1.17	.7484	.3269	1.58	1.0106	.4415	1.99	1.2729	.5561
1.18	.7548	.3297	1.59	1.0170	.4443	2	1.2793	.5589
1.19	.7612	.3325	1.60	1.0234	.4471	2.01	1.2857	.5617
1.20	.7676	.3353	1.61	1.0298	.4499	2.02	1.2921	.5645
1.21	.7740	.3381	1.62	1.0362	.4527	2.03	1.2985	.5673
1.22	.7804	.3409	1.63	1.0426	.4555	2.04	1.3049	.5700
1.23	.7868	.3437	1.64	1.0490	.4583	2.05	1.3113	.5728
1.24	.7932	.3465	1.65	1.0554	.4611	2.06	1.3177	.5756
1.25	.7996	.3493	1.66	1.0618	.4639	2.07	1.3241	.5784
1.26	.8060	.3521	1.67	1.0682	.4667	2.08	1.3305	.5812
1.27	.8124	.3549	1.68	1.0746	.4694	2.09	1.3369	.5840
1.28	.8188	.3577	1.69	1.0810	.4722	2.10	1.3433	.5868
1.29	.8252	.3605	1.70	1.0874	.4750	2.11	1.3497	.5896
1.30	.8315	.3633	1.71	1.0938	.4778	2.12	1.3560	.5924
1.31	.8379	.3661	1.72	1.1002	.4806	2.13	1.3624	.5952
1.32	.8443	.3688	1.73	1.1066	.4834	2.14	1.3688	.5980
1.33	.8507	.3716	1.74	1.1130	.4862	2.15	1.3752	.6008
1.34	.8571	.3744	1.75	1.1194	.4890	2.16	1.3816	.6036
1.35	.8635	.3772	1.76	1.1258	.4918	2.17	1.3880	.6064
1.36	.8699	.3800	1.77	1.1322	.4946	2.18	1.3944	.6092
1.37	.8763	.3828	1.78	1.1386	.4974	2.19	1.4008	.6120
1.38	.8827	.3856	1.79	1.1450	.5002	2.20	1.4072	.6148
1.39	.8891	.3884	1.80	1.1514	.5030	2.21	1.4136	.6176
1.40	.8955	.3912	1.81	1.1578	.5058	2.22	1.4200	.6203
1.41	.9019	.3940	1.82	1.1642	.5086	2.23	1.4264	.6231

TABLE TO CONVERT $Mg_2P_2O_7$ TO P_2O_5 AND P_2. (*Continued.*)

$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.
2.24	1.4328	.6259	2.68	1.7142	.7489	3.12	1.9957	.8718
2.25	1.4392	.6287	2.69	1.7206	.7517	3.13	2.0021	.8746
2.26	1.4456	.6315	2.70	1.7270	.7545	3.14	2.0085	.8774
2.27	1.4520	.6343	2.71	1.7334	.7573	3.15	2.0149	.8802
2.28	1.4584	.6371	2.72	1.7398	.7601	3.16	2.0213	.8830
2.29	1.4648	.6399	2.73	1.7462	.7629	3.17	2.0277	.8858
2.30	1.4712	.6427	2.74	1.7526	.7657	3.18	2.0341	.8886
2.31	1.4776	.6455	2.75	1.7590	.7684	3.19	2.0405	.8914
2.32	1.4840	.6483	2.76	1.7654	.7712	3.20	2.0469	.8942
2.33	1.4904	.6511	2.77	1.7718	.7740	3.21	2.0533	.8970
2.34	1.4968	.6539	2.78	1.7782	.7768	3.22	2.0597	.8998
2.35	1.5032	.6567	2.79	1.7846	.7796	3.23	2.0661	.9026
2.36	1.5096	.6595	2.80	1.7910	.7824	3.24	2.0725	.9054
2.37	1.5160	.6623	2.81	1.7974	.7852	3.25	2.0789	.9082
2.38	1.5224	.6651	2.82	1.8038	.7880	3.26	2.0853	.9110
2.39	1.5288	.6678	2.83	1.8102	.7908	3.27	2.0917	.9137
2.40	1.5351	.6706	2.84	1.8166	.7936	3.28	2.0981	.9165
2.41	1.5415	.6734	2.85	1.8230	.7964	3.29	2.1045	.9193
2.42	1.5479	.6762	2.86	1.8294	.7992	3.30	2.1109	.9221
2.43	1.5543	.6790	2.87	1.8358	.8020	3.31	2.1173	.9249
2.44	1.5607	.6818	2.88	1.8422	.8048	3.32	2.1236	.9277
2.45	1.5671	.6846	2.89	1.8486	.8076	3.33	2.1300	.9305
2.46	1.5735	.6874	2.90	1.8550	.8104	3.34	2.1364	.9333
2.47	1.5799	.6902	2.91	1.8614	.8132	3.35	2.1428	.9361
2.48	1.5863	.6930	2.92	1.8678	.8159	3.36	2.1492	.9389
2.49	1.5927	.6958	2.93	1.8742	.8187	3.37	2.1556	.9417
2.50	1.5991	.6986	2.94	1.8806	.8215	3.38	2.1620	.9445
2.51	1.6055	.7014	2.95	1.8870	.8243	3.39	2.1684	.9473
2.52	1.6119	.7042	2.96	1.8934	.8271	3.40	2.1748	.9501
2.53	1.6183	.7070	2.97	1.8998	.8299	3.41	2.1812	.9529
2.54	1.6247	.7098	2.98	1.9062	.8327	3.42	2.1876	.9557
2.55	1.6311	.7126	2.99	1.9126	.8355	3.43	2.1940	.9585
2.56	1.6375	.7154	3	1.9190	.8383	3.44	2.2004	.9613
2.57	1.6439	.7181	3.01	1.9254	.8411	3.45	2.2068	.9640
2.58	1.6503	.7209	3.02	1.9318	.8439	3.46	2.2132	.9668
2.59	1.6567	.7237	3.03	1.9381	.8469	3.47	2.2196	.9696
2.60	1.6631	.7265	3.04	1.9445	.8495	3.48	2.2260	.9724
2.61	1.6695	.7293	3.05	1.9509	.8523	3.49	2.2324	.9752
2.62	1.6759	.7321	3.06	1.9573	.8551	3.50	2.2388	.9780
2.63	1.6823	.7349	3.07	1.9637	.8579	3.51	2.2452	.9808
2.64	1.6887	.7377	3.08	1.9701	.8607	3.52	2.2516	.9836
2.65	1.6951	.7405	3.09	1.9765	.8634	3.53	2.2580	.9864
2.66	1.7015	.7433	3.10	1.9829	.8662	3.54	2.2644	.9892
2.67	1.7079	.7461	3.11	1.9893	.8690	3.55	2.2708	.9920

TABLE TO CONVERT $Mg_2P_2O_7$ TO P_2O_5 AND P_2. (*Continued.*)

$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.
3.56	2.2772	.9948	4	2.5586	1.1177	4.44	2.8401	1.2407
3.57	2.2836	.9976	4.01	2.5650	1.1205	4.45	2.8465	1.2435
3.58	2.2900	1.0004	4.02	2.5714	1.1233	4.46	2.8529	1.2463
3.59	2.2964	1.0032	4.03	2.5778	1.1261	4.47	2.8592	1.2491
3.60	2.3028	1.0060	4.04	2.5842	1.1289	4.48	2.8656	1.2519
3.61	2.3092	1.0088	4.05	2.5906	1.1317	4.49	2.8720	1.2547
3.62	2.3155	1.0115	4.06	2.5970	1.1345	4.50	2.8784	1.2574
3.63	2.3219	1.0143	4.07	2.6034	1.1373	4.51	2.8848	1.2602
3.64	2.3283	1.0171	4.08	2.6098	1.1401	4.52	2.8912	1.2630
3.65	2.3347	1.0199	4.09	2.6162	1.1429	4.53	2.8976	1.2658
3.66	2.3411	1.0227	4.10	2.6226	1.1457	4.54	2.9040	1.2686
3.67	2.3475	1.0255	4.11	2.6290	1.1485	4.55	2.9104	1.2714
3.68	2.3539	1.0283	4.12	2.6354	1.1513	4.56	2.9168	1.2742
3.69	2.3603	1.0311	4.13	2.6418	1.1541	4.57	2.9232	1.2770
3.70	2.3667	1.0339	4.14	2.6482	1.1569	4.58	2.9296	1.2798
3.71	2.3731	1.0367	4.15	2.6546	1.1596	4.59	2.9360	1.2826
3.72	2.3795	1.0395	4.16	2.6610	1.1624	4.60	2.9424	1.2854
3.73	2.3859	1.0423	4.17	2.6674	1.1652	4.61	2.9488	1.2882
3.74	2.3923	1.0451	4.18	2.6737	1.1680	4.62	2.9552	1.2910
3.75	2.3987	1.0479	4.19	2.6801	1.1708	4.63	2.9616	1.2938
3.76	2.4051	1.0507	4.20	2.6865	1.1736	4.64	2.9680	1.2966
3.77	2.4115	1.0535	4.21	2.6929	1.1764	4.65	2.9744	1.2994
3.78	2.4179	1.0563	4.22	2.6993	1.1792	4.66	2.9808	1.3022
3.79	2.4243	1.0591	4.23	2.7057	1.1820	4.67	2.9872	1.3050
3.80	2.4307	1.0618	4.24	2.7121	1.1848	4.68	2.9936	1.3077
3.81	2.4371	1.0646	4.25	2.7185	1.1876	4.69	3	1.3105
3.82	2.4435	1.0674	4.26	2.7249	1.1904	4.70	3.0064	1.3133
3.83	2.4499	1.0702	4.27	2.7313	1.1932	4.71	3.0128	1.3161
3.84	2.4563	1.0730	4.28	2.7377	1.1960	4.72	3.0192	1.3189
3.85	2.4627	1.0758	4.29	2.7441	1.1988	4.73	3.0256	1.3217
3.86	2.4691	1.0786	4.30	2.7505	1.2016	4.74	3.0320	1.3245
3.87	2.4755	1.0814	4.31	2.7569	1.2044	4.75	3.0383	1.3273
3.88	2.4819	1.0842	4.32	2.7643	1.2071	4.76	3.0447	1.3301
3.89	2.4883	1.0870	4.33	2.7707	1.2099	4.77	3.0511	1.3329
3.90	2.4946	1.0898	4.34	2.7771	1.2127	4.78	3.0575	1.3357
3.91	2.5010	1.0926	4.35	2.7835	1.2155	4.79	3.0639	1.3385
3.92	2.5074	1.0954	4.36	2.7899	1.2183	4.80	3.0703	1.3413
3.93	2.5138	1.0982	4.37	2.7963	1.2211	4.81	3.0767	1.3441
3.94	2.5202	1.1010	4.38	2.8027	1.2239	4.82	3.0831	1.3469
3.95	2.5266	1.1038	4.39	2.8091	1.2267	4.83	3.0895	1.3497
3.96	2.5330	1.1066	4.40	2.8145	1.2295	4.84	3.0959	1.3525
3.97	2.5394	1.1094	4.41	2.8209	1.2323	4.85	3.1023	1.3552
3.98	2.5458	1.1121	4.42	2.8273	1.2351	4.86	3.1087	1.3580
3.99	2.5522	1.1149	4.43	2.8337	1.2379	4.87	3.1151	1.3608

TABLE TO CONVERT $Mg_2P_2O_7$ TO P_2O_5 AND P_2. (*Continued.*)

$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.
4.88	3.1215	1.3636	5.32	3.4030	1.4866	5.76	3.6844	1.6095
4.89	3.1279	1.3664	5.33	3.4094	1.4894	5.77	3.6908	1.6123
4.90	3.1343	1.3692	5.34	3.4158	1.4922	5.78	3.6972	1.6151
4.91	3.1407	1.3720	5.35	3.4221	1.4950	5.79	3.7036	1.6179
4.92	3.1471	1.3748	5.36	3.4285	1.4978	5.80	3.7100	1.6207
4.93	3.1535	1.3776	5.37	3.4349	1.5006	5.81	3.7164	1.6235
4.94	3.1599	1.3804	5.38	3.4413	1.5034	5.82	3.7228	1.6263
4.95	3.1663	1.3832	5.39	3.4477	1.5061	5.83	3.7292	1.6291
4.96	3.1727	1.3860	5.40	3.4541	1.5089	5.84	3.7356	1.6319
4.97	3.1791	1.3888	5.41	3.4605	1.5117	5.85	3.7420	1.6347
4.98	3.1855	1.3916	5.42	3.4669	1.5145	5.86	3.7484	1.6375
4.99	3.1919	1.3944	5.43	3.4733	1.5173	5.87	3.7548	1.6403
5	3.1983	1.3972	5.44	3.4797	1.5201	5.88	3.7612	1.6431
5.01	3.2047	1.4000	5.45	3.4861	1.5229	5.89	3.7676	1.6459
5.02	3.2111	1.4028	5.46	3.4925	1.5257	5.90	3.7740	1.6487
5.03	3.2175	1.4056	5.47	3.4989	1.5285	5.91	3.7804	1.6515
5.04	3.2239	1.4083	5.48	3.5053	1.5313	5.92	3.7868	1.6542
5.05	3.2303	1.4111	5.49	3.5117	1.5341	5.93	3.7931	1.6570
5.06	3.2366	1.4139	5.50	3.5181	1.5369	5.94	3.7995	1.6598
5.07	3.2430	1.4167	5.51	3.5245	1.5397	5.95	3.8059	1.6626
5.08	3.2494	1.4195	5.52	3.5309	1.5425	5.96	3.8123	1.6654
5.09	3.2558	1.4223	5.53	3.5373	1.5453	5.97	3.8187	1.6682
5.10	3.2622	1.4251	5.54	3.5437	1.5481	5.98	3.8251	1.6710
5.11	3.2686	1.4279	5.55	3.5501	1.5509	5.99	3.8315	1.6738
5.12	3.2750	1.4307	5.56	3.5565	1.5537	6	3.8379	1.6766
5.13	3.2814	1.4335	5.57	3.5629	1.5564	6.01	3.8443	1.6794
5.14	3.2878	1.4363	5.58	3.5693	1.5592	6.02	3.8507	1.6822
5.15	3.2942	1.4391	5.59	3.5757	1.5620	6.03	3.8571	1.6850
5.16	3.3006	1.4419	5.60	3.5821	1.5648	6.04	3.8635	1.6878
5.17	3.3070	1.4447	5.61	3.5885	1.5676	6.05	3.8699	1.6906
5.18	3.3134	1.4475	5.62	3.5949	1.5704	6.06	3.8763	1.6934
5.19	3.3198	1.4503	5.63	3.6013	1.5732	6.07	3.8827	1.6962
5.20	3.3262	1.4531	5.64	3.6076	1.5760	6.08	3.8891	1.6990
5.21	3.3326	1.4559	5.65	3.6140	1.5788	6.09	3.8955	1.7017
5.22	3.3390	1.4586	5.66	3.6204	1.5816	6.10	3.9019	1.7045
5.23	3.3454	1.4614	5.67	3.6268	1.5844	6.11	3.9083	1.7073
5.24	3.3518	1.4642	5.68	3.6332	1.5872	6.12	3.9147	1.7101
5.25	3.3582	1.4670	5.69	3.6396	1.5900	6.13	3.9211	1.7129
5.26	3.3646	1.4698	5.70	3.6460	1.5928	6.14	3.9275	1.7157
5.27	3.3710	1.4726	5.71	3.6524	1.5956	6.15	3.9339	1.7185
5.28	3.3774	1.4754	5.72	3.6588	1.5984	6.16	3.9403	1.7213
5.29	3.3838	1.4782	5.73	3.6652	1.6012	6.17	3.9467	1.7241
5.30	3.3902	1.4810	5.74	3.6716	1.6040	6.18	3.9531	1.7269
5.31	3.3966	1.4838	5.75	3.6780	1.6067	6.19	3.9595	1.7297

TABLE TO CONVERT $Mg_2P_2O_7$ TO P_2O_5 AND P_2. (*Continued.*)

$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.
6.20	3.9659	1.7325	6.64	4.2473	1.8554	7.08	4.5287	1.9784
6.21	3.9722	1.7353	6.65	4.2537	1.8582	7.09	4.5351	1.9812
6.22	3.9786	1.7381	6.66	4.2601	1.8610	7.10	4.5415	1.9840
6.23	3.9850	1.7409	6.67	4.2665	1.8638	7.11	4.5479	1.9868
6.24	3.9914	1.7437	6.68	4.2729	1.8666	7.12	4.5543	1.9896
6.25	3.9978	1.7465	6.69	4.2793	1.8694	7.13	4.5607	1.9924
6.26	4.0042	1.7493	6.70	4.2857	1.8722	7.14	4.5671	1.9952
6.27	4.0106	1.7520	6.71	4.2921	1.8750	7.15	4.5735	1.9979
6.28	4.0170	1.7548	6.72	4.2985	1.8778	7.16	4.5799	2.0007
6.29	4.0234	1.7576	6.73	4.3049	1.8806	7.17	4.5863	2.0035
6.30	4.0298	1.7604	6.74	4.3113	1.8834	7.18	4.5927	2.0063
6.31	4.0362	1.7632	6.75	4.3177	1.8862	7.19	4.5991	2.0091
6.32	4.0426	1.7660	6.76	4.3241	1.8890	7.20	4.6055	2.0119
6.33	4.0490	1.7688	6.77	4.3305	1.8918	7.21	4.6119	2.0147
6.34	4.0554	1.7716	6.78	4.3368	1.8946	7.22	4.6183	2.0175
6.35	4.0618	1.7744	6.79	4.3432	1.8974	7.23	4.6247	2.0203
6.36	4.0682	1.7772	6.80	4.3496	1.9001	7.24	4.6311	2.0231
6.37	4.0746	1.7800	6.81	4.3560	1.9029	7.25	4.6375	2.0259
6.38	4.0810	1.7828	6.82	4.3624	1.9057	7.26	4.6439	2.0287
6.39	4.0874	1.7856	6.83	4.3688	1.9085	7.27	4.6503	2.0315
6.40	4.0938	1.7884	6.84	4.3752	1.9113	7.28	4.6567	2.0343
6.41	4.1002	1.7912	6.85	4.3816	1.9141	7.29	4.6631	2.2371
6.42	4.1066	1.7940	6.86	4.3880	1.9169	7.30	4.6695	2.0399
6.43	4.1130	1.7968	6.87	4.3944	1.9197	7.31	4.6759	2.0427
6.44	4.1194	1.7996	6.88	4.4008	1.9225	7.32	4.6823	2.0454
6.45	4.1258	1.8023	6.89	4.4072	1.9253	7.33	4.6887	2.0482
6.46	4.1322	1.8051	6.90	4.4136	1.9281	7.34	4.6951	2.0510
6.47	4.1386	1.8079	6.91	4.4200	1.9309	7.35	4.7014	2.0538
6.48	4.1450	1.8107	6.92	4.4264	1.9337	7.36	4.7078	2.0566
6.49	4.1513	1.8135	6.93	4.4328	1.9365	7.37	4.7142	2.0594
6.50	4.1577	1.8163	6.94	4.4392	1.9393	7.38	4.7206	2.0622
6.51	4.1641	1.8191	6.95	4.4456	1.9421	7.39	4.7270	2.0650
6.52	4.1705	1.8219	6.96	4.4520	1.9449	7.40	4.7334	2.0678
6.53	4.1769	1.8247	6.97	4.4584	1.9477	7.41	4.7398	2.0706
6.54	4.1833	1.8275	6.98	4.4648	1.9504	7.42	4.7462	2.0734
6.55	4.1897	1.8303	6.99	4.4712	1.9532	7.43	4.7526	2.0762
6.56	4.1961	1.8331	7	4.4776	1.9560	7.44	4.7590	2.0790
6.57	4.2025	1.8359	7.01	4.4840	1.9588	7.45	4.7654	2.0818
6.58	4.2089	1.8387	7.02	4.4904	1.9616	7.46	4.7718	2.0846
6.59	4.2153	1.8415	7.03	4.4968	1.9644	7.47	4.7782	2.0874
6.60	4.2217	1.8443	7.04	4.5032	1.9672	7.48	4.7846	2.0902
6.61	4.2281	1.8471	7.05	4.5096	1.9700	7.49	4.7910	2.0930
6.62	4.2345	1.8498	7.06	4.5159	1.9728	7.50	4.7974	2.0957
6.63	4.2409	1.8526	7.07	4.5223	1.9756	7.51	4.8038	2.0985

TABLE TO CONVERT $Mg_2P_2O_7$ TO P_2O_5 AND P_2. (*Continued.*)

$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.
7.52	4.8102	2.1013	7.96	5.0916	2.2243	8.40	5.3731	2.3472
7.53	4.8166	2.1041	7.97	5.0980	2.2271	8.41	5.3795	2.3500
7.54	4.8230	2.1069	7.98	5.1044	2.2299	8.42	5.3859	2.3528
7.55	4.8294	2.1097	7.99	5.1108	2.2327	8.43	5.3923	2.3556
7.56	4.8358	2.1125	8	5.1172	2.2355	8.44	5.3987	2.3584
7.57	4.8422	2.1153	8.01	5.1236	2.2383	8.45	5.4051	2.3612
7.58	4.8486	2.1181	8.02	5.1300	2.2410	8.46	5.4115	2.3640
7.59	4.8550	2.1209	8.03	5.1364	2.2438	8.47	5.4179	2.3668
7.60	4.8614	2.1237	8.04	5.1428	2.2466	8.48	5.4243	2.3696
7.61	4.8678	2.1265	8.05	5.1492	2.2494	8.49	5.4306	2.3724
7.62	4.8742	2.1293	8.06	5.1556	2.2522	8.50	5.4370	2.3752
7.63	4.8806	2.1321	8.07	5.1620	2.2550	8.51	5.4434	2.3780
7.64	4.8869	2.1349	8.08	5.1684	2.2578	8.52	5.4498	2.3808
7.65	4.8933	2.1377	8.09	5.1748	2.2606	8.53	5.4562	2.3836
7.66	4.8997	2.1405	8.10	5.1812	2.2634	8.54	5.4626	2.3864
7.67	4.9061	2.1433	8.11	5.1876	2.2662	8.55	5.4690	2.3891
7.68	4.9125	2.1460	8.12	5.1940	2.2690	8.56	5.4754	2.3919
7.69	4.9189	2.1488	8.13	5.2004	2.2718	8.57	5.4818	2.3947
7.70	4.9253	2.1516	8.14	5.2068	2.2746	8.58	5.4882	2.3975
7.71	4.9317	2.1544	8.15	5.2132	2.2774	8.59	5.4946	2.4003
7.72	4.9381	2.1572	8.16	5.2196	2.2802	8.60	5.5010	2.4031
7.73	4.9445	2.1600	8.17	5.2260	2.2830	8.61	5.5074	2.4059
7.74	4.9509	2.1628	8.18	5.2324	2.2858	8.62	5.5138	2.4087
7.75	4.9573	2.1656	8.19	5.2388	2.2886	8.63	5.5202	2.4115
7.76	4.9637	2.1684	8.20	5.2452	2.2913	8.64	5.5266	2.4143
7.77	4.9701	2.1712	8.21	5.2515	2.2941	8.65	5.5330	2.4171
7.78	4.9765	2.1740	8.22	5.2579	2.2969	8.66	5.5394	2.4199
7.79	4.9829	2.1768	8.23	5.2643	2.2997	8.67	5.5458	2.4227
7.80	4.9893	2.1796	8.24	5.2707	2.3025	8.68	5.5522	2.4255
7.81	4.9957	2.1824	8.25	5.2771	2.3053	8.69	5.5586	2.4283
7.82	5.0021	2.1852	8.26	5.2835	2.3081	8.70	5.5650	2.4311
7.83	5.0085	2.1880	8.27	5.2899	2.3109	8.71	5.5714	2.4339
7.84	5.0149	2.1908	8.28	5.2963	2.3137	8.72	5.5778	2.4367
7.85	5.0213	2.1935	8.29	5.3027	2.3165	8.73	5.5842	2.4394
7.86	5.0277	2.1963	8.30	5.3091	2.3193	8.74	5.5906	2.4422
7.87	5.0341	2.1991	8.31	5.3155	2.3221	8.75	5.5970	2.4450
7.88	5.0405	2.2019	8.32	5.3219	2.3249	8.76	5.6034	2.4478
7.89	5.0469	2.2047	8.33	5.3283	2.3277	8.77	5.6098	2.4506
7.90	5.0533	2.2075	8.34	5.3347	2.3305	8.78	5.6161	2.4534
7.91	5.0597	2.2103	8.35	5.3411	2.3333	8.79	5.6225	2.4562
7.92	5.0661	2.2131	8.36	5.3475	2.3361	8.80	5.6289	2.4590
7.93	5.0724	2.2159	8.37	5.3539	2.3389	8.81	5.6353	2.4618
7.94	5.0788	2.2187	8.38	5.3603	2.3416	8.82	5.6417	2.4646
7.95	5.0852	2.2215	8.39	5.3667	2.3444	8.83	5.6481	2.4674

TABLE TO CONVERT $Mg_2P_2O_7$ TO P_2O_5 AND P_2. (*Continued.*)

$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.	$Mg_2P_2O_7$.	P_2O_5.	P_2.
8.84	5.6545	2.4702	9.26	5.9232	2.5876	9.68	6.1918	2.7049
8.85	5.6609	2.4730	9.27	5.9296	2.5903	9.69	6.1982	2.7077
8.86	5.6673	2.4758	9.28	5.9360	2.5931	9.70	6.2046	2.7105
8.87	5.6737	2.4786	9.29	5.9424	2.5959	9.71	6.2110	2.7133
8.88	5.6801	2.4814	9.30	5.9488	2.5987	9.72	6.2174	2.7161
8.89	5.6865	2.4842	9.31	5.9552	2.6015	9.73	6.2238	2.7189
8.90	5.6929	2.4870	9.32	5.9616	2.6043	9.74	6.2302	2.7217
8.91	5.6993	2.4897	9.33	5.9680	2.6071	9.75	6.2366	2.7245
8.92	5.7057	2.4925	9.34	5.9744	2.6099	9.76	6.2430	2.7273
8.93	5.7121	2.4953	9.35	5.9808	2.6127	9.77	6.2494	2.7301
8.94	5.7185	2.4981	9.36	5.9872	2.6155	9.78	6.2558	2.7329
8.95	5.7249	2.5009	9.37	5.9936	2.6183	9.79	6.2622	2.7357
8.96	5.7313	2.5037	9.38	5.9999	2.6211	9.80	6.2686	2.7384
8.97	5.7377	2.5065	9.39	6.0063	2.6239	9.81	6.2750	2.7412
8.98	5.7441	2.5093	9.40	6.0127	2.6267	9.82	6.2814	2.7440
8.99	5.7505	2.5121	9.41	6.0191	2.6295	9.83	6.2878	2.7468
9	5.7569	2.5149	9.42	6.0255	2.6323	9.84	6.2942	2.7496
9.01	5.7633	2.5177	9.43	6.0319	2.6351	9.85	6.3006	2.7524
9.02	5.7697	2.5205	9.44	6.0383	2.6379	9.86	6.3070	2.7552
9.03	5.7761	2.5233	9.45	6.0447	2.6406	9.87	6.3134	2.7580
9.04	5.7825	2.5261	9.46	6.0511	2.6434	9.88	6.3198	2.7608
9.05	5.7889	2.5289	9.47	6.0575	2.6462	9.89	6.3262	2.7636
9.06	5.7953	2.5317	9.48	6.0639	2.6490	9.90	6.3326	2.7664
9.07	5.8017	2.5345	9.49	6.0703	2.6518	9 91	6.3390	2.7692
9.08	5.8081	2.5373	9.50	6.0767	2.6546	9.92	6.3454	2.7720
9.09	5.8144	2.5400	9.51	6.0831	2.6574	9.93	6.3518	2.7748
9.10	5.8208	2.5428	9.52	6.0895	2.6602	9.94	6.3582	2.7776
9.11	5.8272	2.5456	9.53	6.0959	2.6630	9.95	6.3646	2.7804
9.12	5.8336	2.5484	9.54	6.1023	2.6658	9.96	6.3709	2.7832
9.13	5.8400	2.5512	9.55	6.1087	2.6686	9.97	6.3773	2.7860
9.14	5.8464	2.5540	9.56	6.1151	2.6714	9.98	6.3837	2.7887
9.15	5.8528	2.5568	9.57	6.1215	2.6742	9.99	6.3901	2.7915
9.16	5.8592	2.5596	9.58	6.1279	2.6770	10.	6.3965	2.7943
9.17	5.8656	2.5624	9.59	6.1343	2.6798	20	12.7931	5.5887
9.18	5.8720	2.5652	9.60	6.1407	2.6826	30	19.1896	8.3830
9.19	3.8784	2.5680	9.61	6.1471	2.6854	40	25.5861	11 1773
9.20	5.8848	2.5708	9.62	6.1535	2.6881	50	31.9827	13.9717
9.21	5.8912	2.5736	9.63	6.1599	2.6909	60	38.3792	16.7060
9.22	5.8976	2.5764	9.64	6.1663	2.6937	70	44.7757	19.5603
9.23	5.9040	2.5792	9.65	6.1727	2.6965	80	51.1722	22.3546
9.24	5.9104	2.5820	9.66	6.1791	2.6993	90	57.5688	25.1490
9.25	5.9168	2.5848	9.67	6.1854	2.7021			

TABLE FOR CONVERTING SiO_2 TO Si.

SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.
.01	.0047	.47	.2204	.93	.4361	1.39	.6519	1.85	.8676	2.31	1.0833
.02	.0094	.48	.2251	.94	.4408	1.40	.6566	1.86	.8723	2.32	1.0880
.03	.0141	.49	.2298	.95	.4455	1.41	.6612	1.87	.8770	2.33	1.0927
.04	.0188	.50	.2344	.96	.4502	1.42	.6659	1.88	.8817	2.34	1.0974
.05	.0234	.51	.2392	.97	.4549	1.43	.6706	1.89	.8864	2.35	1.1021
.06	.0281	.52	.2439	.98	.4596	1.44	.6753	1.90	.8910	2.36	1.1068
.07	.0328	.53	.2486	.99	.4643	1.45	.6800	1.91	.8957	2.37	1.1115
.08	.0375	.54	.2532	1	.4690	1.46	.6847	1.92	.9004	2.38	1.1162
.09	.0422	.55	.2579	1.01	.4737	1.47	.6894	1.93	.9051	2.39	1.1209
.10	.0469	.56	.2626	1.02	.4783	1.48	.6941	1.94	.9098	2.40	1.1255
.11	.0516	.57	.2673	1.03	.4830	1.49	.6988	1.95	.9145	2.41	1.1302
.12	.0563	.58	.2720	1.04	.4877	1.50	.7035	1.96	.9192	2.42	1.1349
.13	.0610	.59	.2767	1.05	.4924	1.51	.7081	1.97	.9239	2.43	1.1396
.14	.0657	.60	.2814	1.06	.4971	1.52	.7128	1.98	.9286	2.44	1.1443
.15	.0703	.61	.2861	1.07	.5018	1.53	.7175	1.99	.9333	2.45	1.1490
.16	.0750	.62	.2908	1.08	.5065	1.54	.7222	2	.9379	2.46	1.1537
.17	.0797	.63	.2954	1.09	.5112	1.55	.7269	2.01	.9426	2.47	1.1584
.18	.0844	.64	.3001	1.10	.5159	1.56	.7316	2.02	.9473	2.48	1.1631
.19	.0891	.65	.3048	1.11	.5206	1.57	.7363	2.03	.9520	2.49	1.1678
.20	.0938	.66	.3095	1.12	.5252	1.58	.7410	2.04	.9567	2.50	1.1724
.21	.0985	.67	.3142	1.13	.5299	1.59	.7457	2.05	.9614	2.51	1.1771
.22	.1032	.68	.3180	1.14	.5346	1.60	.7504	2.06	.9661	2.52	1.1818
.23	.1079	.69	.3236	1.15	.5393	1.61	.7550	2.07	.9708	2.53	1.1865
.24	.1126	.70	.3283	1.16	.5440	1.62	.7597	2.08	.9755	2.54	1.1912
.25	.1172	.71	.3330	1.17	.5487	1.63	.7644	2.09	.9802	2.55	1.1959
.26	.1219	.72	.3377	1.18	.5534	1.64	.7691	2.10	.9848	2.56	1.2006
.27	.1266	.73	.3423	1.19	.5581	1.65	.7738	2.11	.9895	2.57	1.2053
.28	.1313	.74	.3470	1.20	.5628	1.66	.7785	2.12	.9942	2.58	1.2100
.29	.1360	.75	.3517	1.21	.5675	1.67	.7832	2.13	.9989	2.59	1.2147
.30	.1407	.76	.3564	1.22	.5721	1.68	.7879	2.14	1.0036	2.60	1.2193
.31	.1454	.77	.3611	1.23	.5768	1.69	.7926	2.15	1.0083	2.61	1.2240
.32	.1501	.78	.3658	1.24	.5815	1.70	.7972	2.16	1.0130	2.62	1.2287
.33	.1548	.79	.3705	1.25	.5862	1.71	.8019	2.17	1.0177	2.63	1.2334
.34	.1594	.80	.3752	1.26	.5909	1.72	.8066	2.18	1.0224	2.64	1.2381
.35	.1641	.81	.3799	1.27	.5956	1.73	.8113	2.19	1.0271	2.65	1.2428
.36	.1688	.82	.3846	1.28	.6003	1.74	.8160	2.20	1.0317	2.66	1.2475
.37	.1735	.83	.3892	1.29	.6050	1.75	.8207	2.21	1.0364	2.67	1.2522
.38	.1782	.84	.3939	1.30	.6097	1.76	.8254	2.22	1.0411	2.68	1.2569
.39	.1829	.85	.3986	1.31	.6143	1.77	.8301	2.23	1.0458	2.69	1.2616
.40	.1876	.86	.4033	1.32	.6190	1.78	.8348	2.24	1.0505	2.70	1.2662
.41	.1923	.87	.4080	1.33	.6237	1.79	.8395	2.25	1.0552	2.71	1.2709
.42	.1970	.88	.4127	1.34	.6284	1.80	.8442	2.26	1.0599	2.72	1.2756
.43	.2017	.89	.4174	1.35	.6331	1.81	.8488	2.27	1.0646	2.73	1.2803
.44	.2063	.90	.4221	1.36	.6378	1.82	.8535	2.28	1.0693	2.74	1.2850
.45	.2110	.91	.4268	1.37	.6425	1.83	.8582	2.29	1.0740	2.75	1.2897
.46	.2157	.92	.4314	1.38	.6472	1.84	.8629	2.30	1.0786	2.76	1.2944

TO CONVERT SiO_2 TO Si. (*Continued.*)

SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.
2.77	1.2991	3.10	1.4538	3.43	1.6086	3.76	1.7633	4.09	1.9181
2.78	1.3038	3.11	1.4585	3.44	1.6132	3.77	1.7680	4.10	1.9228
2.79	1.3085	3.12	1.4632	3.45	1.6179	3.78	1.7727	4.11	1.9275
2.80	1.3131	3.13	1.4679	3.46	1.6226	3.79	1.7774	4.12	1.9322
2.81	1.3178	3.14	1.4726	3.47	1.6273	3.80	1.7821	4.13	1.9368
2.82	1.3225	3.15	1.4772	3.48	1.6320	3.81	1.7868	4.14	1.9415
2.83	1.3272	3.16	1.4819	3.49	1.6367	3.82	1.7915	4.15	1.9462
2.84	1.3319	3.17	1.4866	3.50	1.6414	3.83	1.7961	4.16	1.9509
2.85	1.3366	3.18	1.4913	3.51	1.6461	3.84	1.8008	4.17	1.9556
2.86	1.3413	3.19	1.4960	3.52	1.6508	3.85	1.8055	4.18	1.9603
2.87	1.3460	3.20	1.5007	3.53	1.6555	3.86	1.8102	4.19	1.9650
2.88	1.3507	3.21	1.5054	3.54	1.6601	3.87	1.8149	4.20	1.9697
2.89	1.3554	3.22	1.5101	3.55	1.6648	3.88	1.8196	4.21	1.9744
2.90	1.3600	3.23	1.5148	3.56	1.6695	3.89	1.8243	4.22	1.9791
2.91	1.3647	3.24	1.5195	3.57	1.6742	3.90	1.8290	4.23	1.9837
2.92	1.3694	3.25	1.5242	3.58	1.6789	3.91	1.8337	4.24	1.9884
2.93	1.3741	3.26	1.5289	3.59	1.6836	3.92	1.8384	4.25	1.9931
2.94	1.3788	3.27	1.5336	3.60	1.6883	3.93	1.8430	4.26	1.9978
2.95	1.3835	3.28	1.5383	3.61	1.6930	3.94	1.8477	4.27	2.0025
2.96	1.3882	3.29	1.5430	3.62	1.6977	3.95	1.8524	4.28	2.0072
2.97	1.3929	3.30	1.5476	3.63	1.7023	3.96	1.8571	4.29	2.0119
2.98	1.3976	3.31	1.5523	3.64	1.7070	3.97	1.8618	4.30	2.0166
2.99	1.4023	3.32	1.5570	3.65	1.7117	3.98	1.8665	4.31	2.0213
3	1.4069	3.33	1.5617	3.66	1.7164	3.99	1.8712	4.32	2.0260
3.01	1.4116	3.34	1.5663	3.67	1.7211	4	1.8759	4.33	2.0306
3.02	1.4163	3.35	1.5710	3.68	1.7258	4.01	1.8806	4.34	2.0353
3.03	1.4210	3.36	1.5757	3.69	1.7305	4.02	1.8853	4.35	2.0400
3.04	1.4257	3.37	1.5804	3.70	1.7352	4.03	1.8899	4.36	2.0447
3.05	1.4304	3.38	1.5851	3.71	1.7399	4.04	1.8946	4.37	2.0494
3.06	1.4351	3.39	1.5898	3.72	1.7446	4.05	1.8993	4.38	2.0541
3.07	1.4398	3.40	1.5945	3.73	1.7492	4.06	1.9040	4.39	2.0587
3.08	1.4445	3.41	1.5992	3.74	1.7539	4.07	1.9087	4.40	2.0634
3.09	1.4492	3.42	1.6039	3.75	1.7586	4.08	1.9134	4.41	2.0681

TO CONVERT SiO_2 TO Si. (*Continued.*)

SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.
4.42	2.0728	4.86	2.2792	5.30	2.4855	5.74	2.6919	6.18	2.8982
4.43	2.0775	4.87	2.2839	5.31	2.4902	5.75	2.6966	6.19	2.9029
4.44	2.0822	4.88	2.2886	5.32	2.4949	5.76	2.7013	6.20	2.9076
4.45	2.0869	4.89	2.2932	5.33	2.4996	5.77	2.7060	6.21	2.9123
4.46	2.0916	4.90	2.2979	5.34	2.5043	5.78	2.7106	6.22	2.9170
4.47	2.0963	4.91	2.3026	5.35	2.5090	5.79	2.7153	6.23	2.9247
4.48	2.1010	4.92	2.3073	5.36	2.5137	5.80	2.7200	6.24	2.9294
4.49	2.1057	4.93	2.3120	5.37	2.5184	5.81	2.7247	6.25	2.9341
4.50	2.1103	4.94	2.3167	5.38	2.5230	5.82	2.7294	6.26	2.9388
4.51	2.1150	4.95	2.3214	5.39	2.5277	5.83	2.7341	6.27	2.9435
4.52	2.1197	4.96	2.3261	5.40	2.5324	5.84	2.7388	6.28	2.9451
4.53	2.1244	4.97	2.3308	5.41	2.5371	5.85	2.7435	6.29	2.9498
4.54	2.1291	4.98	2.3355	5.42	2.5418	5.86	2.7482	6.30	2.9545
4.55	2.1338	4.99	2.3401	5.43	2.5465	5.87	2.7529	6.31	2.9592
4.56	2.1385	5	2.3448	5.44	2.5512	5.88	2.7575	6.32	2.9639
4.57	2.1432	5.01	2.3495	5.45	2.5559	5.89	2.7622	6.33	2.9686
4.58	2.1479	5.02	2.3542	5.46	2.5606	5.90	2.7669	6.34	2.9733
4.59	2.1525	5.03	2.3589	5.47	2.5653	5.91	2.7716	6.35	2.9780
4.60	2.1572	5.04	2.3636	5.48	2.5699	5.92	2.7763	6.36	2.9827
4.61	2.1629	5.05	2.3683	5.49	2.5746	5.93	2.7810	6.37	2.9874
4.62	2.1676	5.06	2.3730	5.50	2.5793	5.94	2.7857	6.38	2.9920
4.63	2.1723	5.07	2.3777	5.51	2.5840	5.95	2.7904	6.39	2.9967
4.64	2.1770	5.08	2.3824	5.52	2.5887	5.96	2.7951	6.40	3.0014
4.65	2.1817	5.09	2.3870	5.53	2.5934	5.97	2.7998	6.41	3.0061
4.66	2.1864	5.10	2.3917	5.54	2.5981	5.98	2.8044	6.42	3.0108
4.67	2.1911	5.11	2.3964	5.55	2.6028	5.99	2.8091	6.43	3.0165
4.68	2.1958	5.12	2.4011	5.56	2.6075	6	2.8138	6.44	3.0212
4.69	2.1994	5.13	2.4058	5.57	2.6122	6.01	2.8185	6.45	3.0259
4.70	2.2041	5.14	2.4105	5.58	2.6168	6.02	2.8232	6.46	3.0306
4.71	2.2088	5.15	2.4152	5.59	2.6215	6.03	2.8279	6.47	3.0353
4.72	2.2135	5.16	2.4199	5.60	2.6262	6.04	2.8326	6.48	3.0389
4.73	2.2182	5.17	2.4246	5.61	2.6309	6.05	2.8373	6.49	3.0436
4.74	2.2229	5.18	2.4293	5.62	2.6356	6.06	2.8420	6.50	3.0483
4.75	2.2276	5.19	2.4339	5.63	2.6403	6.07	2.8467	6.51	3.0530
4.76	2.2323	5.20	2.4386	5.64	2.6450	6.08	2.8513	6.52	3.0577
4.77	2.2370	5.21	2.4433	5.65	2.6497	6.09	2.8560	6.53	3.0624
4.78	2.2417	5.22	2.4480	5.66	2.6544	6.10	2.8607	6.54	3.0671
4.79	2.2463	5.23	2.4527	5.67	2.6591	6.11	2.8654	6.55	3.0718
4.80	2.2510	5.24	2.4574	5.68	2.6637	6.12	2.8701	6.56	3.0765
4.81	2.2557	5.25	2.4621	5.69	2.6684	6.13	2.8748	6.57	3.0812
4.82	2.2604	5.26	2.4668	5.70	2.6731	6.14	2.8795	6.58	3.0858
4.83	2.2651	5.27	2.4715	5.71	2.6778	6.15	2.8842	6.59	3.0905
4.84	2.2698	5.28	2.4761	5.72	2.6825	6.16	2.8889	6.60	3.0952
4.85	2.2745	5.29	2.4808	5.73	2.6872	6.17	2.8936	6.61	3.0999

TO CONVERT SiO_2 TO Si. (*Continued.*)

SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.
6.62	3.1046	7.06	3.3110	7.50	3.5172	7.94	3.7236	8.38	3.9300
6.63	3.1093	7.07	3.3157	7.51	3.5219	7.95	3.7283	8.39	3.9347
6.64	3.1140	7.08	3.3203	7.52	3.5266	7.96	3.7330	8.40	3.9393
6.65	3.1187	7.09	3.3250	7.53	3.5313	7.97	3.7377	8.41	3.9440
6.66	3.1234	7.10	3.3297	7.54	3.5360	7.98	3.7424	8.42	3.9487
6.67	3.1281	7.11	3.3344	7.55	3.5407	7.99	3.7471	8.43	3.9534
6.68	3.1327	7.12	3.3391	7.56	3.5454	8	3.7517	8.44	3.9581
6.69	3.1374	7.13	3.3438	7.57	3.5501	8.01	3.7564	8.45	3.9628
6.70	3.1421	7.14	3.3485	7.58	3.5548	8.02	3.7611	8.46	3.9675
6.71	3.1468	7.15	3.3532	7.59	3.5595	8.03	3.7658	8.47	3.9722
6.72	3.1515	7.16	3.3579	7.60	3.5641	8.04	3.7705	8.48	3.9769
6.73	3.1562	7.17	3.3626	7.61	3.5688	8.05	3.7752	8.49	3.9816
6.74	3.1609	7.18	3.3672	7.62	3.5735	8.06	3.7799	8.50	3.9862
6.75	3.1656	7.19	3.3719	7.63	3.5782	8.07	3.7846	8.51	3.9909
6.76	3.1703	7.20	3.3766	7.64	3.5829	8.08	3.7893	8.52	3.9956
6.77	3.1750	7.21	3.3813	7.65	3.5876	8.09	3.7940	8.53	4.0003
6.78	3.1796	7.22	3.3860	7.66	3.5923	8.10	3.7986	8.54	4.0050
6.79	3.1843	7.23	3.3907	7.67	3.5970	8.11	3.8033	8.55	4.0097
6.80	3.1890	7.24	3.3954	7.68	3.6017	8.12	3.8080	8.56	4.0144
6.81	3.1937	7.25	3.4001	7.69	3.6064	8.13	3.8127	8.57	4.0191
6.82	3.1984	7.26	3.4048	7.70	3.6110	8.14	3.8174	8.58	4.0238
6.83	3.2031	7.27	3.4095	7.71	3.6157	8.15	3.8221	8.59	4.0285
6.84	3.2078	7.28	3.4141	7.72	3.6204	8.16	3.8268	8.60	4.0331
6.85	3.2125	7.29	3.4188	7.73	3.6251	8.17	3.8315	8.61	4.0378
6.86	3.2172	7.30	3.4235	7.74	3.6298	8.18	3.8362	8.62	4.0425
6.87	3.2219	7.31	3.4282	7.75	3.6345	8.19	3.8409	8.63	4.0472
6.88	3.2265	7.32	3.4329	7.76	3.6392	8.20	3.8455	8.64	4.0519
6.89	3.2312	7.33	3.4376	7.77	3.6439	8.21	3.8502	8.65	4.0566
6.90	3.2359	7.34	3 4423	7.78	3.6486	8.22	3.8549	8.66	4.0613
6.91	3.2406	7.35	3.4470	7.79	3.6533	8.23	3.8596	8.67	4.0660
6.92	3.2453	7.36	3.4517	7.80	3.6579	8.24	3.8643	8.68	4.0707
6.93	3.2500	7.37	3.4564	7.81	3.6626	8.25	3.8690	8.69	4.0754
6.94	3.2547	7.38	3.4610	7.82	3.6673	8.26	3.8737	8.70	4.0800
6.95	3.2594	7.39	3.4657	7.83	3.6720	8.27	3.8784	8.71	4.0847
6.96	3.2641	7.40	3.4704	7.84	3.6767	8.28	3.8831	8.72	4.0894
6.97	3.2688	7.41	3.4750	7.85	3.6814	8.29	3.8878	8.73	4.0941
6.98	3.2734	7.42	3.4797	7.86	3.6861	8.30	3.8924	8.74	4.0988
6.99	3.2781	7.43	3.4844	7.87	3.6908	8.31	3.8971	8.75	4.1035
7	3.2828	7.44	3.4891	7.88	3.6955	8.32	3.9018	8.76	4.1082
7.01	3.2875	7.45	3.4938	7.89	3.7002	8.33	3.9065	8.77	4.1129
7.02	3.2922	7.46	3.4985	7.90	3.7048	8.34	3.9112	8.78	4.1176
7.03	3.2969	7.47	3.5032	7.91	3.7095	8.35	3.9159	8.79	4.1223
7.04	3.3016	7.48	3.5079	7.92	3.7142	8.36	3.9206	8.80	4.1269
7.05	3.3063	7.49	3.5126	7.93	3.7189	8.37	3.9253	8.81	4.1316

To Convert SiO_2 to Si. (*Continued.*)

SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.	SiO_2.	Si.
8.82	4.1363	9.08	4.2583	9.34	4.3802	9.60	4.5021	9.86	4.6241
8.83	4.1410	9.09	4.2630	9.35	4.3849	9.61	4.5068	9.87	4.6288
8.84	4.1457	9.10	4.2676	9.36	4.3896	9.62	4.5115	9.88	4.6335
8.85	4.1504	9.11	4.2723	9.37	4.3943	9.63	4.5162	9.89	4.6382
8.86	4.1551	9.12	4.2770	9.38	4.3990	9.64	4.5209	9.90	4.6428
8.87	4.1598	9.13	4.2817	9.39	4.4037	9.65	4.5256	9.91	4.6474
8.88	4.1645	9.14	4.2864	9.40	4.4083	9.66	4.5303	9.92	4.6521
8.89	4.1692	9.15	4.2911	9.41	4.4130	9.67	4.5350	9.93	4.6568
8.90	4.1738	9.16	4.2958	9.42	4.4177	9.68	4.5397	9.94	4.6615
8.91	4.1785	9.17	4.3005	9.43	4.4224	9.69	4.5444	9.95	4.6662
8.92	4.1832	9.18	4.3052	9.44	4.4271	9.70	4.5490	9.96	4.6709
8.93	4.1879	9.19	4.3099	9.45	4.4318	9.71	4.5537	9.97	4.6756
8.94	4.1926	9.20	4.3145	9.46	4.4365	9 72	4.5584	9.98	4.6803
8.95	4.1973	9.21	4.3192	9.47	4.4412	9.73	4.5631	9.99	4.6850
8.96	4.2020	9.22	4.3239	9.48	4.4459	9.74	4.5678	10	4.6897
8.97	4.2067	9.23	4.3286	9.49	4.4506	9.75	4.5725	20	9.3793
8.98	4.2114	9.24	4.3333	9.50	4 4552	9.76	4.5772	30	14.0690
8.99	4.2161	9.25	4.3380	9.51	4.4599	9.77	4.5819	40	18.7586
9	4.2207	9.26	4.3427	9.52	4.4646	9.78	4.5866	50	23.4483
9.01	4.2254	9.27	4.3474	9.53	4.4693	9.79	4.5913	60	28.1380
9.02	4.2301	9.28	4.3521	9.54	4.4740	9.80	4.5959	70	32.8276
9.03	4.2348	9.29	4.3568	9.55	4.4787	9.81	4.6006	80	37.5173
9.04	4.2395	9.30	4.3614	9.56	4.4834	9.82	4.6053	90	42.2069
9.05	4.2442	9.31	4.3661	9.57	4.4881	9.83	4.6100		
9.06	4.2489	9.32	4.3708	9.58	4.4938	9.84	4.6147		
9.07	4.2536	9.33	4.3755	9.59	4.4975	9.85	4.6194		

TABLE TO CONVERT $Mg_2P_2O_7$ TO $Ca_3P_2O_8$. (See page 48.)

$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$
1.01	1.4112	1.45	2.0260	1.89	2.6407	2.33	3.2555
1.02	1.4252	1.46	2.0399	1.90	2.6547	2.34	3.2695
1.03	1.4391	1.47	2.0539	1.91	2.6687	2.35	3.2835
1.04	1.4531	1.48	2.0679	1.92	2.6827	2.36	3.2974
1.05	1.4671	1.49	2.0818	1.93	2.6966	2.37	3.3114
1.06	1.4811	1.50	2.0958	1.94	2.7106	2.38	3.3254
1.07	1.4950	1.51	2.1098	1.95	2.7246	2.39	3.3394
1.08	1.5090	1.52	2.1238	1.96	2.7386	2.40	3.3533
1.09	1.5230	1.53	2.1377	1.97	2.7525	2.41	3.3673
1.10	1.5369	1.54	2.1517	1.98	2.7665	2.42	3.3813
1.11	1.5509	1.55	2.1657	1 99	2.7805	2.43	3.3952
1.12	1.5649	1.56	2.1796	2.00	2.7944	2.44	3.4092
1.13	1.5789	1.57	2.1936	2.01	2.8084	2.45	3.4232
1.14	1.5928	1.58	2.2076	2.02	2.8224	2 46	3.4372
1.15	1.6068	1.59	2.2216	2.03	2.8364	2.47	3.4511
1.16	1.6208	1.60	2.2356	2.04	2.8503	2.48	3.4651
1.17	1.6347	1.61	2.2495	2.05	2.8643	2.49	3.4791
1.18	1.6487	1.62	2.2635	2.06	2.8783	2.50	3.4931
1.19	1.6627	1.63	2.2775	2.07	2.8922	2.51	3.5070
1.20	1.6767	1.64	2.2914	2.08	2.9062	2.52	3.5210
1.21	1.6906	1.65	2.3054	2.09	2.9202	2.53	3.5350
1.22	1.7046	1.66	2.3194	2.10	2.9342	2.54	3.5489
1.23	1.7186	1.67	2.3334	2.11	2.9481	2.55	3.5629
1.24	1.7326	1.68	2.3473	2.12	2.9621	2.56	3.5769
1.25	1.7465	1.69	2.3613	2.13	2.9761	2.57	3.5909
1.26	1.7605	1.70	2.3753	2.14	2.9901	2.58	3.6048
1.27	1.7745	1.71	2.3892	2.15	3.0040	2.59	3.6188
1.28	1.7884	1.72	2.4032	2.16	3.0180	2.60	3.6328
1.29	1.8024	1.73	2.4172	2.17	3.0320	2.61	3.6467
1.30	1.8164	1.74	2.4312	2.18	3.0459	2.62	3.6607
1.31	1.8304	1.75	2.4451	2.19	3.0599	2.63	3.6747
1.32	1.8443	1.76	2.4591	2.20	3.0739	2.64	3.6887
1.33	1.8583	1.77	2.4731	2.21	3.0879	2.65	3.7026
1.34	1.8723	1.78	2.4871	2.22	3.1018	2.66	3.7166
1.35	1.8862	1.79	2.5010	2.23	3.1158	2 67	3.7306
1.36	1.9002	1.80	2.5150	2.24	3.1298	2.68	3.7446
1.37	1.9142	1.81	2.5290	2.25	3.1437	2.69	3.7585
1.38	1.9282	1.82	2.5429	2.26	3.1577	2.70	3.7725
1.39	1.9421	1.83	2.5569	2.27	3.1717	2.71	3.7865
1.40	1.9561	1.84	2.5709	2.28	3.1857	2.72	3.8004
1.41	1.9701	1.85	2.5849	2.29	3.1996	2.73	3.8144
1.42	1.9840	1.86	2.5988	2.30	3.2136	2.74	3.8284
1.43	1.9980	1.87	2.6128	2.31	3.2276	2.75	3.8424
1.44	2.0120	1.88	2.6268	2.32	3.2416	2.76	3.8563

REESE LIBRARY
OF THE

TABLE TO CONVERT $Mg_2P_2O_7$ TO $Ca_3P_2O_8$.—*Continued.*

$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$
2.77	3.8703	3.21	4.4851	3.65	5.0999	4.09	5.7146
2.78	3.8843	3.22	4.4991	3.66	5.1138	4.10	5.7286
2.79	3.8982	3.23	4.5130	3.67	5.1278	4.11	5.7426
2.80	3.9122	3.24	4.5270	3.68	5.1418	4.12	5.7566
2.81	3.9262	3.25	4.5410	3.69	5.1558	4.13	5.7705
2.82	3.9402	3.26	4.5549	3.70	5.1697	4.14	5.7845
2.83	3.9541	3.27	4.5689	3.71	5.1837	4.15	5.7985
2.84	3.9681	3.28	4.5829	3.72	5.1977	4.16	5.8124
2.85	3.9821	3.29	4.5969	3.73	5.2116	4.17	5.8264
2.86	3.9961	3.30	4.6108	3.74	5.2256	4.18	5.8404
2.87	4.0100	3.31	4.6248	3.75	5.2396	4.19	5.8544
2.88	4.0240	3.32	4.6388	3.76	5.2536	4.20	5.8683
2.89	4.0380	3.33	4.6528	3.77	5.2675	4.21	5.8823
2.90	4.0519	3.34	4.6667	3.78	5.2815	4.22	5.8963
2.91	4.0659	3.35	4.6807	3.79	5.2955	4.23	5.9103
2.92	4.0799	3.36	4.6947	3.80	5.3094	4.24	5.9242
2.93	4.0939	3.37	4.7086	3.81	5.3234	4.25	5.9382
2.94	4.1078	3.38	4.7226	3.82	5.3374	4.26	5.9522
2.95	4.1218	3.39	4.7366	3.83	5.3514	4.27	5.9661
2.96	4.1358	3.40	4.7506	3.84	5.3653	4.28	5.9801
2.97	4.1497	3.41	4.7645	3.85	5.3793	4.29	5.9941
2.98	4.1637	3.42	4.7785	3.86	5.3933	4.30	6.0081
2.99	4.1777	3.43	4.7925	3.87	5.4073	4.31	6.0220
3.00	4.1917	3.44	4.8064	3.88	5.4212	4.32	6.0360
3.01	4.2056	3.45	4.8204	3.89	5.4352	4.33	6.0500
3.02	4.2196	3.46	4.8344	3.90	5.4492	4.34	6.0639
3.03	4.2336	3.47	4.8484	3.91	5.4631	4.35	6.0779
3.04	4.2476	3.48	4.8623	3.92	5.4771	4.36	6.0919
3.05	4.2615	3.49	4.8763	3.93	5.4911	4.37	6.1059
3.06	4.2755	3.50	4.8903	3.94	5.5051	4.38	6.1198
3.07	4.2895	3.51	4.9043	3.95	5.5190	4.39	6.1338
3.08	4.3034	3.52	4.9182	3.96	5.5330	4.40	6.1478
3.09	4.3174	3.53	4.9322	3.97	5.5470	4.41	6.1618
3.10	4.3314	3.54	4.9462	3.98	5.5609	4.42	6.1757
3.11	4.3454	3.55	4.9601	3.99	5.5749	4.43	6.1897
3.12	4.3593	3.56	4.9741	4.00	5.5889	4.44	6.2037
3.13	4.3733	3.57	4.9881	4.01	5.6029	4.45	6.2176
3.14	4.3873	3.58	5.0021	4.02	5.6168	4.46	6.2316
3.15	4.4013	3.59	5.0160	4.03	5.6308	4.47	6.2456
3.16	4.4152	3.60	5.0300	4.04	5.6448	4.48	6.2596
3.17	4.4292	3.61	5.0440	4.05	5.6588	4.49	6.2735
3.18	4.4432	3.62	5.0579	4.06	5.6727	4.50	6.2875
3.19	4.4571	3.63	5.0719	4.07	5.6867	4.51	6.3015
3.20	4.4711	3.64	5.0859	4.08	5.7007	4.52	6.3154

TABLE TO CONVERT $Mg_2P_2O_7$ TO $Ca_3P_2O_8$.—*Continued.*

$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$
4.53	6.3294	4.97	6.9442	5.41	7.5590	5.85	8.1737
4.54	6.3434	4.98	6.9582	5.42	7.5729	5.86	8.1877
4 55	6.3574	4.99	6.9721	5.43	7.5869	5.87	8.2017
4.56	6.3713	5.00	6.9861	5.44	7.6009	5.88	8.2157
4.57	6.3853	5.01	7.0001	5.45	7.6149	5.89	8.2296
4.58	6.3993	5.02	7.0141	5.46	7.6288	5.90	8.2436
4.59	6.4133	5.03	7.0280	5.47	7.6428	5.91	8.2576
4.60	6.4272	5.04	7.0420	5.48	7.6568	5.92	8.2716
4.61	6.4412	5.05	7.0560	5.49	7.6707	5.93	8.2855
4.62	6.4552	5.06	7.0699	5.50	7.6847	5.94	8.2995
4.63	6.4691	5.07	7.0839	5.51	7.6987	5.95	8.3135
4.64	6.4831	5.08	7 0979	5.52	7.7127	5.96	8.3274
4.65	6.4971	5.09	7.1119	5.53	7.7266	5.97	8.3414
4.66	6.5111	5.10	7.1258	5.54	7.7406	5.98	8.3554
4.67	6.5250	5.11	7.1398	5.55	7.7546	5.99	8.3694
4.68	6.5390	5.12	7.1538	5.56	7.7686	6.00	8.3833
4.69	6,5530	5.13	7.1677	5.57	7.7825	6.01	8.3973
4.70	6 5669	5.14	7.1817	5.58	7.7965	6.02	8.4113
4.71	6.5809	5.15	7.1957	5.59	7.8105	6.03	8.4252
4.72	6.5949	5.16	7.2097	5.60	7 8244	6.04	8.4392
4.73	6.6089	5.17	7.2236	5.61	7.8384	6.05	8.4532
4.74	6.6228	5.18	7.2376	5.62	7.8524	6.06	8.4672
4.75	6.6368	5.19	7.2516	5.63	7.8664	6.07	8.4811
4.76	6.6508	5.20	7.2656	5.64	7.8803	6.08	8.4951
4.77	6.6648	5.21	7.2795	5.65	7.8943	6.09	8.5091
4.78	6.6787	5.22	7.2935	5.66	7.9083	6.10	8.5231
4.79	6.6927	5.23	7.3075	5.67	7 9222	6.11	8.5370
4.80	6.7067	5.24	7.3214	5.68	7.9362	6.12	8.5510
4.81	6.7206	5.25	7.3354	5.69	7.9502	6.13	8.5650
4.82	6.7346	5.26	7.3494	5.70	7.9642	6.14	8.5789
4.83	6.7486	5.27	7.3634	5.71	7.9781	6.15	8.5929
4.84	6.7626	5.28	7.3773	5.72	7.9921	6.16	8.6069
4.85	6.7765	5.29	7.3913	5.73	8.0061	6.17	8.6209
4.86	6.7905	5.30	7.4053	5.74	8.0201	6.18	8.6348
4.87	6.8045	5.31	7.4192	5.75	8.0340	6.19	8.6488
4.88	6.8184	5.32	7.4332	5.76	8.0480	6.20	8.6628
4.89	6.8324	5.33	7.4472	5.77	8.0620	6.21	8.6767
4.90	6.8464	5.34	7.4612	5.78	8.0759	6.22	8.6907
4.91	6 8604	5.35	7.4751	5.79	8.0899	6.23	8.7047
4.92	6.8743	5.36	7.4891	5.80	8.1039	6.24	8.7187
4.93	6.8883	5.37	7.5031	5.81	8.1179	6.25	8.7326
4.94	6.9023	5.38	7.5171	5.82	8.1318	6.26	8.7466
4.95	6.9163	5.39	7.5310	5.83	8.1458	6.27	8.7606
4.96	6.9302	5.40	7.5450	5.84	8.1598	6.28	8.7746

TABLE TO CONVERT $Mg_2P_2O_7$ TO $Ca_3P_2O_8$.—*Continued.*

$Mg_2P_2O_7$	$Ca_2P_2O_8$	$Mg_2P_2O_7$	$Ca_2P_2O_8$	$Mg_2P_2O_7$	$Ca_2P_2O_8$	$Mg_2P_2O_7$	$Ca_2P_2O_8$
6.29	8.7885	6.73	9.4033	7.17	10.0181	7.61	10.6329
6.30	8.8025	6.74	9.4173	7.18	10.0320	7.62	10.6468
6.31	8.8165	6.75	9.4312	7.19	10.0460	7.63	10.6608
6.32	8.8304	6.76	9.4452	7.20	10.0600	7.64	10.6748
6.33	8.8444	6.77	9.4592	7.21	10.0740	7.65	10.6887
6.34	8.8584	6.78	9.4732	7.22	10.0879	7.66	10.7027
6.35	8.8724	6.79	9.4871	7.23	10.1019	7.67	10.7167
6.36	8.8863	6.80	9.5011	7.24	10.1159	7.68	10.7307
6.37	8.9003	6.81	9.5151	7.25	10.1299	7.69	10.7446
6.38	8.9143	6.82	9.5291	7.26	10.1438	7.70	10.7586
6.39	8.9282	6.83	9.5430	7.27	10.1578	7.71	10.7726
6.40	8.9422	6.84	9.5570	7.28	10.1718	7.72	10.7865
6.41	8.9562	6.85	9.5710	7.29	10.1857	7.73	10.8005
6.42	8.9702	6.86	9.5849	7.30	10.1997	7.74	10.8145
6.43	8.9841	6.87	9.5989	7.31	10.2137	7.75	10.8285
6.44	8.9981	6.88	9.6129	7.32	10.2277	7.76	10.8424
6.45	9.0121	6.89	9.6269	7.33	10.2416	7.77	10.8564
6.46	9.0261	6.90	9.6408	7.34	10.2556	7.78	10.8704
6.47	9.0400	6.91	9.6548	7.35	10.2696	7.79	10.8844
6.48	9.0540	6.92	9.6688	7.36	10.2836	7.80	10.8983
6.49	9.0680	6.93	9.6827	7.37	10.2975	7.81	10.9123
6.50	9.0819	6.94	9.6967	7.38	10.3115	7.82	10.9263
6.51	9.0959	6.95	9.7107	7.39	10.3255	7.83	10.9402
6.52	9.1099	6.96	9.7247	7.40	10.3394	7.84	10.9542
6.53	9.1239	6.97	9.7386	7.41	10.3534	7.85	10.9682
6.54	9.1378	6.98	9.7526	7.42	10.3674	7.86	10.9822
6.55	9.1518	6.99	9.7666	7.43	10.3814	7.87	10.9961
6.56	9.1658	7.00	9.7806	7.44	10.3953	7.88	11.0101
6.57	9.1797	7.01	9.7945	7.45	10.4093	7.89	11.0241
6.58	9.1937	7.02	9.8085	7.46	10.4233	7.90	11.0381
6.59	9.2077	7.03	9.8225	7.47	10.4372	7.91	11.0520
6.60	9.2217	7.04	9.8364	7.48	10.4512	7.92	11.0660
6.61	9.2356	7.05	9.8504	7.49	10.4652	7.93	11.0800
6.62	9.2496	7.06	9.8644	7.50	10.4792	7.94	11.0939
6.63	9.2636	7.07	9.8784	7.51	10.4931	7.95	11.1079
6.64	9.2776	7.08	9.8923	7.52	10.5071	7.96	11.1219
6.65	9.2915	7.09	9.9063	7.53	10.5211	7.97	11.1359
6.66	9.3055	7.10	9.9203	7.54	10.5350	7.98	11.1498
6.67	9.3195	7.11	9.9342	7.55	10.5490	7.99	11.1638
6.68	9.3334	7.12	9.9482	7.56	10.5630	8.00	11.1778
6.69	9.3474	7.13	9.9622	7.57	10.5770	8.01	11.1918
6.70	9.3614	7.14	9.9762	7.58	10.5909	8.02	11.2057
6.71	9.3754	7.15	9.9901	7.59	10.6049	8.03	11.2197
6.72	9.3893	7.16	10.0041	7.60	10.6189	8.04	11.2337

TABLE TO CONVERT $Mg_2P_2O_7$ TO $Ca_3P_2O_8$.—*Continued.*

$Mg_2P_2O_7$	$Ca_2P_2O_8$	$Mg_2P_2O_7$	$Ca_2P_2O_8$	Mg_2PO_7	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_2P_2O_8$
8.05	11.2476	8.49	11.8624	8.93	12.4772	9.37	13.0920
8.06	11.2616	8.50	11.8764	8.94	12.4912	9.38	13.1059
8.07	11.2756	8.51	11.8904	8.95	12.5051	9.39	13.1199
8.08	11.2896	8.52	11.9043	8.96	12.5191	9.40	13.1339
8.09	11.3035	8.53	11.9183	8.97	12.5331	9.41	13.1479
8.10	11.3175	8.54	11.9323	8.98	12.5471	9.42	13.1618
8.11	11.3315	8.55	11.9463	8.99	12.5610	9.43	13.1758
8.12	11.3454	8.56	11.9602	9.00	12.5750	9.44	13.1898
8.13	11.3594	8.57	11.9742	9.01	12.5890	9.45	13.2038
8.14	11.3734	8.58	11.9882	9.02	12.6029	9.46	13.2177
8.15	11.3874	8.59	12.0021	9.03	12.6169	9.47	13.2317
8.16	11.4013	8.60	12.0161	9.04	12.6309	9.48	13.2457
8.17	11.4153	8.61	12.0301	9.05	12.6449	9.49	13.2596
8.18	11.4293	8.62	12.0441	9.06	12.6588	9.50	13.2736
8.19	11.4433	8.63	12.0580	9.07	12.6728	9.51	13.2876
8.20	11.4572	8.64	12.0720	9.08	12.6868	9.52	13.3016
8.21	11.4712	8.65	12.0860	9.09	12.7008	9.53	13.3155
8.22	11.4852	8.66	12.0999	9.10	12.7147	9.54	13.3295
8.23	11.4991	8.67	12.1139	9.11	12.7287	9.55	13.3435
8.24	11.5131	8.68	12.1279	9.12	12.7427	9.56	13.3574
8.25	11.5271	8.69	12.1419	9.13	12.7566	9.57	13.3714
8.26	11.5411	8.70	12.1558	9.14	12.7706	9.58	13.3854
8.27	11.5550	8.71	12.1698	9.15	12.7846	9.59	13.3994
8.28	11.5690	8.72	12.1838	9.16	12.7986	9.60	13.4133
8.29	11.5830	8.73	12.1978	9.17	12.8125	9.61	13.4273
8.30	11.5969	8.74	12.2117	9.18	12.8265	9.62	13.4413
8.31	11.6109	8.75	12.2257	9.19	12.8405	9.63	13.4552
8.32	11.6249	8.76	12.2397	9.20	12.8544	9.64	13.4692
8.33	11.6389	8.77	12.2536	9.21	12.8684	9.65	13.4832
8.34	11.6528	8.78	12.2676	9.22	12.8824	9.66	13.4972
8.35	11.6668	8.79	12.2816	9.23	12.8964	9.67	13.5111
8.36	11.6808	8.80	12.2956	9.24	12.9103	9.68	13.5251
8.37	11.6948	8.81	12.3095	9.25	12.9243	9.69	13.5391
8.38	11.7087	8.82	12.3235	9.26	12.9383	9.70	13.5531
8.39	11.7227	8.83	12.3375	9.27	12.9522	9.71	13.5670
8.40	11.7367	8.84	12.3514	9.28	12.9662	9.72	13.5810
8.41	11.7506	8.85	12.3654	9.29	12.9802	9.73	13.5950
8.42	11.7646	8.86	12.3794	9.30	12.9942	9.74	13.6089
8.43	11.7786	8.87	12.3934	9.31	13.0081	9.75	13.6229
8.44	11.7926	8.88	12.4073	9.32	13.0221	9.76	13.6369
8.45	11.8065	8.89	12.4213	9.33	13.0361	9.77	13.6509
8.46	11.8205	8.90	12.4353	9.34	13.0501	9.78	13.6648
8.47	11.8345	8.91	12.4493	9.35	13.0640	9.79	13.6788
8.48	11.8484	8.92	12.4632	9.36	13.0780	9.80	13.6928

TABLE TO CONVERT $Mg_2P_2O_7$ TO $Ca_3P_2O_8$.—*Continued.*

$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$	$Mg_2P_2O_7$	$Ca_3P_2O_8$
9.81	13 7068	9.88	13.8046	9.95	13.9024	30.00	41.9167
9.82	13.7207	9.89	13.8185	9.96	13.9163	40.00	55.8889
9.83	13.7347	9.90	13.8325	9.97	13.9303	50.00	69.8611
9.84	13.7487	9.91	13.8465	9.98	13.9443	60.00	83.8333
9.85	13.7626	9.92	13.8604	9.99	13.9583	70.00	97.8055
9.86	13.7766	9.93	13.8744	10.00	13.9722	80.00	111.778
9.87	13.7906	9.94	13.8884	20.00	27.9444	90.00	125.750

RELATION BETWEEN THE BORE (*d* MM.) OF A GLASS TUBE AND ITS CAPACITY (*c*).

(In cubic millimetres or milligrammes of water per 1 mm. of length.)

d	*c*	*d*	*c*	*d*	*c*	*d*	*c*	*d*	*c*
.1	.785	2.2	3.801	3.4	9.079	4.6	16.62	9.0	63.62
1.1	.950	2.3	4.155	3.5	9.621	4.7	17.35	10	78.54
1.2	1.131	2.4	4.524	3.6	10.18	4.8	18.10	11	95.0
1.3	1.327	2.5	4.909	3.7	10.75	4.9	18.86	12	113.1
1.4	1.540	2.6	5.309	3.8	11.34	5.0	19.63	13	132.7
1.5	1.767	2.7	5.726	3.9	11.95	5.5	23.76	14	153.9
1.6	2.011	2.8	6.158	4.0	12.57	6.0	28.27	15	176.7
1.7	2.270	2.9	6.605	4.1	13.20	6.5	33.18	16	201.1
1.8	2.545	3 0	7.069	4.2	13.85	7.0	38.49	17	227.0
1.9	2.835	3.1	7.548	4.3	14.52	7.5	44.18	18	254.5
2.0	3.142	3.2	8.043	4.4	15.21	8.0	50.27	19	283.5
2.1	3.464	3.3	8.553	4.5	15.90	8.5	56.75	20	314.2

TABLE TO CONVERT $Mg_2P_2O_7$ TO MgO.

$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO
.01	.0036	.45	.1622	.89	.3207	1.33	.4793
.02	.0072	.46	.1658	.90	.3243	1.34	.4829
.03	.0108	.47	.1694	.91	.3279	1.35	.4865
.04	.0144	.48	.1730	.92	.3315	1.36	.4901
.05	.0180	.49	.1766	.93	.3351	1.37	.4937
.06	.0216	.50	.1802	.94	.3387	1.38	.4973
.07	.0252	.51	.1838	.95	.3423	1.39	.5009
.08	.0288	.52	.1874	.96	.3459	1.40	.5045
.09	.0324	.53	.1910	.97	.3495	1.41	.5081
.10	.0360	.54	.1946	.98	.3531	1.42	.5117
.11	.0396	.55	.1982	.99	.3567	1.43	.5153
.12	.0432	.56	.2018	1.00	.3604	1.44	.5189
.13	.0468	.57	.2054	1.01	.3640	1.45	.5225
.14	.0504	.58	.2090	1.02	.3676	1.46	.5261
.15	.0541	.59	.2126	1.03	.3712	1.47	.5297
.16	.0577	.60	.2162	1.04	.3748	1.48	.5333
.17	.0613	.61	.2198	1.05	.3784	1.49	.5369
.18	.0649	.62	.2234	1.06	.3820	1.50	.5405
.19	.0685	.63	.2270	1.07	.3856	1.51	.5441
.20	.0721	.64	.2306	1.08	.3892	1.52	.5477
.21	.0757	.65	.2342	1.09	.3928	1.53	.5513
.22	.0793	.66	.2378	1.10	.3964	1.54	.5549
.23	.0829	.67	.2414	1.11	.4000	1.55	.5585
.24	.0865	.68	.2450	1.12	.4036	1.56	.5621
.25	.0901	.69	.2486	1.13	.4072	1.57	.5657
.26	.0937	.70	.2522	1.14	.4108	1.58	.5694
.27	.0973	.71	.2558	1.15	.4144	1.59	.5730
.28	.1009	.72	.2594	1.16	.4180	1.60	.5766
.29	.1045	.73	.2631	1.17	.4216	1.61	.5802
.30	.1081	.74	.2667	1.18	.4252	1.62	.5838
.31	.1117	.75	.2703	1.19	.4288	1.63	.5874
.32	.1153	.76	.2739	1.20	.4324	1.64	.5910
.33	.1189	.77	.2775	1.21	.4360	1.65	.5946
.34	.1225	.78	.2811	1.22	.4396	1.66	.5982
.35	.1261	.79	.2847	1.23	.4432	1.67	.6018
.36	.1297	.80	.2883	1.24	.4468	1.68	.6054
.37	.1333	.81	.2919	1.25	.4504	1.69	.6090
.38	.1369	.82	.2955	1.26	.4540	1.70	.6126
.39	.1405	.83	.2991	1.27	.4576	1.71	.6162
.40	.1441	.84	.3027	1.28	.4612	1.72	.6198
.41	.1477	.85	.3063	1.29	.4649	1.73	.6234
.42	.1513	.86	.3099	1.30	.4685	1.74	.6270
.43	.1549	.87	.3135	1.31	.4721	1.75	.6306
.44	.1586	.88	.3171	1.32	.4757	1.76	.6342

TABLE TO CONVERT $Mg_2P_2O_7$ TO MgO.—*Continued.*

$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO
1.77	.6378	2.21	.7964	2.65	.9549	3.09	1.1135
1.78	.6414	2.22	.8000	2.66	.9585	3.10	1.1171
1.79	.6450	2.23	.8036	2.67	.9621	3.11	1.1207
1.80	.6486	2.24	.8072	2.68	.9657	3.12	1.1243
1.81	.6522	2.25	.8108	2.69	.9693	3.13	1.1279
1.82	.6558	2.26	.8144	2.70	.9729	3.14	1.1315
1.83	.6594	2.27	.8180	2.71	.9765	3.15	1.1351
1.84	.6630	2.28	.8216	2.72	.9801	3.16	1.1387
1.85	.6666	2.29	.8252	2.73	.9837	3.17	1.1423
1.86	.6702	2.30	.8288	2.74	.9873	3.18	1.1459
1.87	.6739	2.31	.8324	2.75	.9909	3.19	1.1495
1.88	.6775	2.32	.8360	2.76	.9946	3.20	1.1531
1.89	.6811	2.33	.8396	2.77	.9982	3.21	1.1567
1.90	.6847	2.34	.8432	2.78	1.0018	3.22	1.1603
1.91	.6883	2.35	.8468	2.79	1.0054	3.23	1.1639
1.92	.6919	2.36	.8504	2.80	1.0090	3.24	1.1675
1.93	.6955	2.37	.8540	2.81	1.0126	3.25	1.1711
1.94	.6991	2.38	.8576	2.82	1.0162	3.26	1 1747
1.95	.7027	2.39	.8612	2.83	1.0198	3.27	1.1783
1.96	.7063	2.40	.8648	2.84	1.0234	3.28	1.1819
1.97	.7099	2.41	.8684	2.85	1.0270	3.29	1.1855
1.98	.7135	2.42	.8720	2.86	1.0306	3.30	1.1891
1.99	.7171	2.43	.8756	2.87	1.0342	3.31	1.1927
2.00	.7207	2.44	.8792	2.88	1.0378	3.32	1.1964
2.01	.7243	2.45	.8828	2.89	1.0414	3.33	1.2000
2.02	.7279	2.46	.8864	2.90	1.0450	3.34	1.2036
2.03	.7315	2.47	.8901	2.91	1.0486	3.35	1.2072
2.04	.7351	2.48	.8937	2.92	1.0522	3.36	1.2108
2.05	.7387	2.49	.8973	2.93	1.0558	3.37	1.2144
2.06	.7423	2.50	.9009	2.94	1.0594	3.38	1.2180
2.07	.7459	2.51	.9045	2.95	1.0630	3.39	1.2216
2.08	.7495	2.52	.9081	2.96	1.0666	3.40	1.2252
2.09	.7531	2.53	.9117	2.97	1.0702	3.41	1.2288
2.10	.7567	2.54	.9153	2.98	1.0738	3.42	1.2324
2.11	.7603	2.55	.9189	2.99	1.0774	3.43	1.2360
2.12	.7639	2.56	.9225	3.00	1.0810	3.44	1.2396
2.13	.7675	2.57	.9261	3.01	1.0846	3.45	1.2432
2.14	.7711	2.58	.9297	3.02	1.0882	3.46	1.2468
2.15	.7747	2.59	.9333	3.03	1.0919	3.47	1.2504
2.16	.7783	2.60	.9369	3.04	1.0955	3.48	1.2540
2.17	.7819	2.61	.9405	3.05	1.0991	3.49	1.2576
2.18	.7856	2.62	.9441	3.06	1.1027	3.50	1.2612
2.19	.7892	2.63	.9477	3.07	1.1063	3.51	1.2648
2.20	.7928	2.64	.9513	3.08	1.1099	3.52	1.2684

TABLE TO CONVERT $Mg_2P_2O_7$ TO MgO.—*Continued.*

$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO
3.53	1.2720	3.97	1.4306	4.41	1.5891	4.85	1.7477
3.54	1.2756	3.98	1.4342	4.42	1.5927	4.86	1.7513
3.55	1.2792	3.99	1.4378	4.43	1.5963	4.87	1.7549
3.56	1.2828	4.00	1.4414	4.44	1.5999	4.88	1.7585
3.57	1.2864	4.01	1.4450	4.45	1.6035	4.89	1.7621
3.58	1.2900	4.02	1.4486	4.46	1.6071	4.90	1.7657
3.59	1.2936	4.03	1.4522	4.47	1.6107	4.91	1.7693
3.60	1.2972	4.04	1.4558	4.48	1.6143	4.92	1.7729
3.61	1.3009	4.05	1.4594	4.49	1.6179	4.93	1.7765
3.62	1.3045	4.06	1.4630	4.50	1.6216	4.94	1.7801
3.63	1.3081	4.07	1.4666	4.51	1.6252	4.95	1.7837
3.64	1.3117	4.08	1.4702	4.52	1.6288	4.96	1.7873
3.65	1.3153	4.09	1.4738	4.53	1.6324	4.97	1.7909
3.66	1.3189	4.10	1.4774	4.54	1.6360	4.98	1.7945
3.67	1.3225	4.11	1.4810	4.55	1.6396	4.99	1.7981
3.68	1.3261	4.12	1.4846	4.56	1.6432	5.00	1.8017
3.69	1.3297	4.13	1.4882	4.57	1.6468	5.01	1.8053
3.70	1.3333	4.14	1.4918	4.58	1.6504	5.02	1.8089
3.71	1.3369	4.15	1.4954	4.59	1.6540	5.03	1.8125
3.72	1.3405	4.16	1.4990	4.60	1.6576	5.04	1.8161
3.73	1.3441	4.17	1.5026	4.61	1.6612	5.05	1.8197
3.74	1.3477	4.18	1.5062	4.62	1.6648	5.06	1.8234
3.75	1.3513	4.19	1.5098	4.63	1.6684	5.07	1.8270
3.76	1.3549	4.20	1.5134	4.64	1.6720	5.08	1.8306
3.77	1.3585	4.21	1.5171	4.65	1.6756	5.09	1.8342
3.78	1.3621	4.22	1.5207	4.66	1.6792	5.10	1.8378
3.79	1.3657	4.23	1.5243	4.67	1.6828	5.11	1.8414
3.80	1.3693	4.24	1.5279	4.68	1.6864	5.12	1.8450
3.81	1.3729	4.25	1.5315	4.69	1.6900	5.13	1.8486
3.82	1.3765	4.26	1.5351	4.70	1.6936	5.14	1.8522
3.83	1.3801	4.27	1.5387	4.71	1.6972	5.15	1.8558
3.84	1.3837	4.28	1.5423	4.72	1.7008	5.16	1.8594
3.85	1.3873	4.29	1.5459	4.73	1.7044	5.17	1.8630
3.86	1.3909	4.30	1.5495	4.74	1.7080	5.18	1.8666
3.87	1.3945	4.31	1.5531	4.75	1.7116	5.19	1.8702
3.88	1.3981	4.32	1.5567	4.76	1.7152	5.20	1.8738
3.89	1.4017	4.33	1.5603	4.77	1.7188	5.21	1.8774
3.90	1.4054	4.34	1.5639	4.78	1.7224	5.22	1.8810
3.91	1.4090	4.35	1.5675	4.79	1.7261	5.23	1.8846
3.92	1.4126	4.36	1.5711	4.80	1.7297	5.24	1.8882
3.93	1.4162	4.37	1.5747	4.81	1.7333	5.25	1.8918
3.94	1.4198	4.38	1.5783	4.82	1.7369	5.26	1.8954
3.95	1.4234	4.39	1.5819	4.83	1.7405	5.27	1.8990
3.96	1.4270	4.40	1.5855	4.84	1.7441	5.28	1.9026

TABLE TO CONVERT $Mg_2P_2O_7$ TO MgO.—*Continued.*

$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO
5.29	1.9062	5.73	2.0648	6.17	2.2233	6.61	2.3819
5.30	1.9098	5.74	2.0684	6.18	2.2269	6.62	2.3855
5.31	1.9134	5.75	2.0720	6.19	2.2305	6.63	2.3891
5.32	1.9170	5.76	2.0756	6.20	2.2341	6.64	2.3927
5.33	1.9206	5.77	2.0792	6.21	2.2378	6.65	2.3963
5.34	1.9242	5.78	2.0828	6.22	2.2414	6.66	2.3999
5.35	1.9279	5.79	2.0864	6.23	2.2450	6.67	2.4035
5.36	1.9315	5.80	2.0900	6.24	2.2486	6.68	2.4071
5.37	1.9351	5.81	2.0936	6.25	2.2522	6.69	2.4107
5.38	1.9387	5.82	2.0972	6.26	2.2558	6.70	2.4143
5.39	1.9423	5.83	2.1008	6.27	2.2594	6.71	2.4179
5.40	1.9459	5.84	2.1044	6.28	2.2630	6.72	2.4215
5.41	1.9495	5.85	2.1080	6.29	2.2666	6.73	2.4251
5.42	1.9531	5.86	2.1116	6.30	2.2702	6.74	2.4287
5.43	1.9567	5.87	2.1152	6.31	2.2738	6.75	2.4323
5.44	1.9603	5.88	2.1188	6.32	2.2774	6.76	2,4359
5.45	1.9639	5.89	2.1224	6.33	2.2810	6.77	2.4395
5.46	1.9675	5.90	2.1260	6.34	2.2846	6.78	2.4431
5.47	1.9711	5.91	2.1296	6.35	2.2882	6.79	2.4468
5.48	1.9747	5.92	2.1332	6.36	2.2918	6.80	2.4504
5.49	1.9783	5.93	2.1369	6.37	2.2954	6.81	2.4540
5.50	1.9819	5.94	2.1405	6.38	2.2990	6.82	2.4576
5.51	1.9855	5.95	2.1441	6.39	2.3026	6.83	2.4612
5.52	1.9891	5.96	2.1477	6.40	2.3062	6.84	2.4648
5.53	1.9927	5.97	2.1513	6.41	2.3098	6.85	2.4684
5.54	1.9963	5.98	2.1549	6.42	2.3134	6.86	2.4720
5.55	1.9999	5.99	2.1585	6.43	2.3170	6.87	2.4756
5.56	2.0035	6.00	2.1621	6.44	2.3206	6.88	2.4792
5.57	2.0071	6.01	2.1657	6.45	2.3242	6.89	2.4828
5.58	2.0107	6.02	2.1693	6.46	2.3278	6.90	2.4864
5.59	2.0143	6.03	2.1729	6.47	2.3314	6.91	2.4900
5.60	2.0179	6.04	2.1765	6.48	2.3350	6.92	2.4936
5.61	2.0215	6.05	2.1801	6.49	2.3386	6.93	2.4972
5.62	2.0251	6.06	2.1837	6.50	2.3423	6.94	2.5008
5.63	2.0287	6.07	2.1873	6.51	2.3459	6.95	2.5044
5.64	2.0324	6.08	2.1909	6.52	2.3495	6.96	2.5080
5.65	2.0360	6.09	2.1945	6.53	2.3531	6.97	2.5116
5.66	2.0396	6.10	2.1981	6.54	2.3567	6.98	2.5152
5.67	2.0432	6.11	2.2017	6.55	2.3603	6.99	2.5188
5.68	2.0468	6.12	2.2053	6.56	2.3639	7.00	2.5224
5.69	2.0504	6.13	2.2089	6.57	2.3675	7.01	2.5260
5.70	2.0540	6.14	2.2125	6.58	2.3711	7.02	2.5296
5.71	2.0576	6.15	2.2161	6.59	2.3747	7.03	2.5332
5.72	2.0612	6.16	2.2197	6.60	2.3783	7.04	2.5368

TABLE TO CONVERT $Mg_2P_2O_7$ TO MgO.—*Continued.*

$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO
7.05	2.5404	7.49	2.6990	7.93	2.8575	8.37	3.0161
7.06	2.5440	7.50	2.7026	7.94	2.8611	8.38	3.0197
7.07	2.5476	7.51	2.7062	7.95	2.8647	8.39	3.0233
7.08	2.5512	7.52	2.7098	7.96	2.8684	8.40	3.0269
7.09	2.5549	7.53	2.7134	7.97	2.8720	8.41	3.0305
7.10	2.5585	7.54	2.7170	7.98	2.8756	8.42	3.0341
7.11	2.5621	7.55	2.7206	7.99	2.8792	8.43	3.0377
7.12	2.5657	7.56	2.7242	8.00	2.8828	8.44	3.0413
7.13	2.5693	7.57	2.7278	8.01	2.8864	8.45	3.0449
7.14	2.5729	7.58	2.7314	8.02	2.8900	8.46	3.0485
7.15	2.5765	7.59	2.7350	8.03	2.8936	8.47	3.0521
7.16	2.5801	7.60	2.7386	8.04	2.8972	8.48	3.0557
7.17	2.5837	7.61	2.7422	8.05	2.9008	8.49	3.0593
7.18	2.5873	7.62	2.7458	8.06	2.9044	8.50	3.0629
7.19	2.5909	7.63	2.7494	8.07	2.9080	8.51	3.0665
7.20	2.5945	7.64	2.7530	8.08	2.9116	8.52	3.0701
7.21	2.5981	7.65	2.7566	8.09	2.9152	8.53	3.0738
7.22	2.6017	7.66	2.7602	8.10	2.9188	8.54	3.0774
7.23	2.6053	7.67	2.7639	8.11	2.9224	8.55	3.0810
7.24	2.6089	7.68	2.7675	8.12	2.9260	8.56	3.0846
7.25	2.6125	7.69	2.7711	8.13	2.9296	8.57	3.0882
7.26	2.6161	7.70	2.7747	8.14	2.9332	8.58	3.0918
7.27	2.6197	7.71	2.7783	8.15	2.9368	8.59	3.0954
7.28	2.6233	7.72	2.7819	8.16	2.9404	8.60	3.0990
7.29	2.6269	7.73	2.7855	8.17	2.9440	8.61	3.1026
7.30	2.6305	7.74	2.7891	8.18	2.9476	8.62	3.1062
7.31	2.6341	7.75	2.7927	8.19	2.9512	8.63	3.1098
7.32	2.6377	7.76	2.7963	8.20	2.9548	8.64	3.1134
7.33	2.6413	7.77	2.7999	8.21	2.9584	8.65	3.1170
7.34	2.6449	7.78	2.8035	8.22	2.9620	8.66	3.1206
7.35	2.6485	7.79	2.8071	8.23	2.9656	8.67	3.1242
7.36	2.6521	7.80	2.8107	8.24	2.9693	8.68	3.1278
7.37	2.6557	7.81	2.8143	8.25	2.9729	8.69	3.1314
7.38	2.6594	7.82	2.8179	8.26	2.9765	8.70	3.1350
7.39	2.6630	7.83	2.8215	8.27	2.9801	8.71	3.1386
7.40	2.6666	7.84	2.8251	8.28	2.9837	8.72	3.1422
7.41	2.6702	7.85	2.8287	8.29	2.9873	8.73	3.1458
7.42	2.6738	7.86	2.8323	8.30	2.9909	8.74	3.1494
7.43	2.6774	7.87	2.8359	8.31	2.9945	8.75	3.1530
7.44	2.6810	7.88	2.8395	8.32	2.9981	8.76	3.1566
7.45	2.6846	7.89	2.8431	8.33	3.0017	8.77	3.1602
7.46	2.6882	7.90	2.8467	8.34	3.0053	8.78	3.1638
7.47	2.6918	7.91	2.8503	8.35	3.0089	8.79	3.1674
7.48	2.6954	7.92	2.8539	8.36	3.0125	8.80	3.1710

TABLE TO CONVERT $Mg_2P_2O_7$ TO MgO.—*Continued.*

$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO	$Mg_2P_2O_7$	MgO
8.81	3.1747	9.13	3.2900	9.45	3.4053	9.77	3.5206
8.82	3.1783	9.14	3.2936	9.46	3.4089	9.78	3.5242
8.83	3.1819	9.15	3.2972	9.47	3.4125	9.79	3.5278
8.84	3.1855	9.16	3.3008	9.48	3.4161	9.80	3.5314
8.85	3.1891	9.17	3.3044	9.49	3.4197	9.81	3.5350
8.86	3.1927	9.18	3.3080	9.50	3.4233	9.82	3.5386
8.87	3.1963	9.19	3.3116	9.51	3.4269	9.83	3.5422
8.88	3.1999	9.20	3.3152	9.52	3.4305	9.84	3.5458
8.89	3.2035	9.21	3.3188	9.53	3.4341	9.85	3.5494
8.90	3.2071	9.22	3.3224	9.54	3.4377	9.86	3.5530
8.91	3.2107	9.23	3.3260	9.55	3.4413	9.87	3.5566
8.92	3.2143	9 24	3.3296	9.56	3.4449	9.88	3.5602
8.93	3.2179	9.25	3.3332	9.57	3.4485	9.89	3.5638
8.94	3.2215	9.26	3.3368	9.58	3.4521	9.90	3.5674
8.95	3.2251	9.27	3.3404	9.59	3.4557	9.91	3.5710
8.96	3.2287	9.28	3.3440	9.60	3.4593	9.92	3.5746
8.97	3.2323	9.29	3.3476	9.61	3.4629	9.93	3.5782
8.98	3.2359	9 30	3.3512	9.62	3.4665	9.94	3.5818
8.99	3.2395	9.31	3.3548	9.63	3.4701	9.95	3.5854
9.00	3.2431	9.32	3.3584	9.64	3.4737	9.96	3.5890
9.01	3.2467	9.33	3.3620	2.65	3.4773	9.97	3.5926
9.02	3.2503	9.34	3.3656	9.66	3.4809	9.98	3.5962
9.03	3.2539	9.35	3.3692	9.67	3.4845	9 99	3.5999
9.04	3.2575	9.36	3.3728	9.68	3.4881	10.00	3.6035
9.05	3.2611	9.37	3.3764	9.69	3.4917	20.00	7.2069
9.06	3.2647	9.38	3.3800	9.70	3.4954	30.00	10.8104
9.07	3.2683	9.39	3.3836	9.71	3.4990	40.00	14.4138
9.08	3.2719	9.40	3.3872	9.72	3.5026	50.00	18.0173
9.09	3.2755	9.41	3.3909	9.73	3.5062	60.00	21.6208
9.10	3.2791	9.42	3.3945	9.74	3.5098	70.00	25.2242
9.11	3.2827	9.43	3.3981	9.75	3.5134	80.00	28.8277
9.12	3.2864	9.44	3.4017	9.76	3.5170	90.00	32.4311

TABLE FOR CONVERTING $BaSO_4$ TO S.

$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S
.01	.0014	.45	.0619	.89	.1224	1.33	.1828	1.77	.2433
.02	.0028	.46	.0633	.90	.1238	1.34	.1842	1.78	.2447
.03	.0041	.47	.0646	.91	.1251	1.35	.1856	1.79	.2461
.04	.0055	.48	.0660	.92	.1265	1.36	.1870	1.80	.2475
.05	.0069	.49	.0674	.93	.1278	1.37	.1883	1.81	.2489
.06	.0083	.50	.0688	.94	.1292	1.38	.1897	1.82	.2503
.07	.0096	.51	.0701	.95	.1306	1.39	.1911	1.83	.2516
.08	.0110	.52	.0715	.96	.1320	1.40	.1925	1.84	.2530
.09	.0124	.53	.0728	.97	.1333	1.41	.1939	1.85	.2544
.10	.0138	.54	.0742	.98	.1347	1.42	.1953	1.86	.2558
.11	.0151	.55	.0756	.99	.1361	1.43	.1966	1.87	.2571
.12	.0165	.56	.0770	1.00	.1375	1.44	.1980	1.88	.2585
.13	.0179	.57	.0783	1.01	.1389	1.45	.1994	1.89	.2599
.14	.0193	.58	.0797	1.02	.1403	1.46	.2008	1.90	.2613
.15	.0206	.59	.0811	1.03	.1416	1.47	.2021	1.91	.2626
.16	.0220	.60	.0825	1.04	.1430	1.48	.2035	1.92	.2640
.17	.0234	.61	.0839	1.05	.1444	1.49	.2049	1.93	.2653
.18	.0248	.62	.0853	1.06	.1458	1.50	.2063	1.94	.2667
.19	.0261	.63	.0866	1.07	.1471	1.51	.2076	1.95	.2681
.20	.0275	.64	.0880	1.08	.1485	1.52	.2090	1.96	.2695
.21	.0289	.65	.0894	1.09	.1499	1.53	.2103	1.97	.2708
.22	.0303	.66	.0908	1.10	.1513	1.54	.2117	1.98	.2722
.23	.0316	.67	.0921	1.11	.1526	1.55	.2131	1.99	.2736
.24	.0330	.68	.0935	1.12	.1540	1.56	.2145	2.00	.2750
.25	.0344	.69	.0949	1.13	.1553	1.57	.2158	2.01	.2764
.26	.0358	.70	.0963	1.14	.1567	1.58	.2172	2.02	.2778
.27	.0371	.71	.0976	1.15	.1581	1.59	.2186	2.03	.2791
.28	.0385	.72	.0990	1.16	.1595	1.60	.2200	2.04	.2805
.29	.0399	.73	.1003	1.17	.1608	1.61	.2214	2.05	.2819
.30	.0413	.74	.1017	1.18	.1622	1.62	.2228	2.06	.2833
.31	.0426	.75	.1031	1.19	.1636	1.63	.2241	2.07	.2846
.32	.0440	.76	.1045	1.20	.1650	1.64	.2255	2.08	.2860
.33	.0454	.77	.1058	1.21	.1664	1.65	.2269	2.09	.2874
.34	.0468	.78	.1072	1.22	.1678	1.66	.2283	2.10	.2888
.35	.0481	.79	.1086	1.23	.1691	1.67	.2296	2.11	.2901
.36	.0495	.80	.1100	1.24	.1705	1.68	.2310	2.12	.2915
.37	.0509	.81	.1114	1.25	.1719	1.69	.2324	2.13	.2928
.38	.0523	.82	.1128	1.26	.1733	1.70	.2338	2.14	.2942
.39	.0536	.83	.1141	1.27	.1746	1.71	.2351	2.15	.2956
.40	.0550	.84	.1155	1.28	.1760	1.72	.2365	2.16	.2970
.41	.0564	.85	.1169	1.29	.1774	1.73	.2378	2.17	.2983
.42	.0578	.86	.1183	1.30	.1788	1.74	.2392	2.18	.2997
.43	.0591	.87	.1196	1.31	.1801	1.75	.2406	2.19	.3011
.44	.0605	.88	.1210	1.32	.1815	1.76	.2420	2.20	.3025

TABLE FOR CONVERTING $BaSO_4$ TO S—(*Continued.*)

$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S
2.21	.3039	2.65	.3644	3.09	.4249	3.53	.4853	3.97	.5459
2.22	.3053	2.66	.3658	3.10	.4263	3.54	.4867	3.98	.5473
2.23	.3066	2.67	.3671	3.11	.4276	3.55	.4881	3.99	.5487
2.24	.3080	2.68	.3685	3.12	.4290	3.56	.4895	4.00	.5500
2.25	.3094	2.69	.3699	3.13	.4303	3.57	.4908	4.01	.5514
2.26	.3108	2.70	.3713	3.14	.4317	3.58	.4922	4.02	.5528
2.27	.3121	2.71	.3726	3.15	.4331	3.59	.4936	4.03	.5541
2.28	.3135	2.72	.3740	3.16	.4345	3.60	.4950	4.04	.5555
2.29	.3149	2.73	.3753	3.17	.4358	3.61	.4964	4.05	.5569
2.30	.3163	2.74	.3767	3.18	.4372	3.62	.4978	4.06	.5583
2.31	.3176	2.75	.3781	3.19	.4386	3.63	.4991	4.07	.5596
2.32	.3190	2.76	.3795	3.20	.4400	3.64	.5005	4.08	.5610
2.33	.3203	2.77	.3808	3.21	.4414	3.65	.5019	4.09	.5624
2.34	.3217	2.78	.3822	3.22	.4428	3.66	.5033	4.10	.5638
2.35	.3231	2.79	.3836	3.23	.4441	3.67	.5046	4.11	.5651
2.36	.3245	2.80	.3850	3.24	.4455	3.68	.5060	4.12	.5665
2.37	.3258	2.81	.3864	3.25	.4469	3.69	.5074	4.13	.5678
2.38	.3272	2.82	.3878	3.26	.4483	3.70	.5088	4.14	.5692
2.39	.3286	2.83	.3891	3.27	.4496	3.71	.5101	4.15	.5706
2.40	.3300	2.84	.3905	3.28	.4510	3.72	.5115	4.16	.5720
2.41	.3314	2.85	.3919	3.29	.4524	3.73	.5128	4.17	.5733
2.42	.3328	2.86	.3933	3.30	.4538	3.74	.5142	4.18	.5747
2.43	.3341	2.87	.3946	3.31	.4551	3.75	.5156	4.19	.5761
2.44	.3355	2.88	.3960	3.32	.4565	3.76	.5170	4.20	.5775
2.45	.3369	2.89	.3974	3.33	.4578	3.77	.5183	4.21	.5789
2.46	.3383	2.90	.3988	3.34	.4592	3.78	.5197	4.22	.5803
2.47	.3396	2.91	.4001	3.35	.4606	3.79	.5211	4.23	.5816
2.48	.3410	2.92	.4015	3.36	.4620	3.80	.5225	4.24	.5830
2.49	.3424	2.93	.4028	3.37	.4633	3.81	.5239	4.25	.5844
2.50	.3438	2.94	.4042	3.38	.4647	3.82	.5253	4.26	.5858
2.51	.3451	2.95	.4056	3.39	.4661	3.83	.5266	4.27	.5871
2.52	.3465	2.96	.4070	3.40	.4675	3.84	.5280	4.28	.5885
2.53	.3478	2.97	.4083	3.41	.4689	3.85	.5294	4.29	.5899
2.54	.3492	2.98	.4097	3.42	.4703	3.86	.5308	4.30	.5913
2.55	.3506	2.99	.4111	3.43	.4716	3.87	.5321	4.31	.5926
2.56	.3520	3.00	.4125	3.44	.4730	3.88	.5335	4.32	.5940
2.57	.3533	3.01	.4139	3.45	.4744	3.89	.5349	4.33	.5953
2.58	.3547	3.02	.4153	3.46	.4758	3.90	.5363	4.34	.5967
2.59	.3561	3.03	.4166	3.47	.4771	3.91	.5377	4.35	.5981
2.60	.3575	3.04	.4180	3.48	.4785	3.92	.5390	4.36	.5995
2.61	.3589	3.05	.4194	3.49	.4799	3.93	.5404	4.37	.6008
2.62	.3603	3.06	.4208	3.50	.4813	3.94	.5418	4.38	.6022
2.63	.3616	3.07	.4221	3.51	.4826	3.95	.5432	4.39	.6036
2.64	.3630	3.08	.4235	3.52	.4840	3.96	.5445	4.40	.6050

TABLE FOR CONVERTING $BaSO_4$ TO S—(*Continued.*)

$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S
4.41	.6064	4.85	.6669	5.29	.7274	5.73	.7879	6.17	.8484
4.42	.6078	4.86	.6683	5.30	.7288	5.74	.7893	6.18	.8498
4.43	.6091	4.87	.6696	5.31	.7302	5.75	.7907	6.19	.8512
4.44	.6105	4.88	.6710	5.32	.7315	5.76	.7920	6.20	.8525
4.45	.6119	4.89	.6724	5.33	.7329	5.77	.7934	6.21	.8539
4.46	.6133	4.90	.6738	5.34	.7343	5.78	.7948	6.22	.8552
4.47	.6146	4.91	.6752	5.35	.7357	5.79	.7962	6.23	.8566
4.48	.6160	4.92	.6765	5.36	.7370	5.80	.7975	6.24	.8580
4.49	.6174	4.93	.6779	5.37	.7384	5.81	.7989	6.25	.8594
4.50	.6188	4.94	.6793	5.38	.7398	5.82	.8003	6.26	.8607
4.51	.6201	4.95	.6807	5.39	.7412	5.83	.8017	6.27	.8621
4.52	.6215	4.96	.6820	5.40	.7425	5.84	.8030	6.28	.8635
4.53	.6228	4.97	.6834	5.41	.7439	5.85	.8044	6.29	.8649
4.54	.6242	4.98	.6848	5.42	.7453	5.86	.8058	6.30	.8663
4.55	.6256	4.99	.6862	5 43	.7466	5.87	.8072	6.31	.8677
4.56	.6270	5.00	.6875	5.44	.7480	5.88	.8085	6.32	.8690
4.57	.6283	5.01	.6889	5.45	.7494	5.89	.8099	6.33	.8704
4.58	.6297	5.02	.6903	5.46	.7508	5.90	.8113	6.34	.8718
4.59	.6311	5.03	.6916	5.47	.7521	5.91	.8127	6.35	.8732
4.60	.6325	5.04	.6930	5.48	.7535	5.92	.8140	6.36	.8745
4.61	.6339	5.05	.6944	5.49	.7549	5.93	.8154	6.37	.8759
4.62	.6353	5.06	.6958	5.50	.7563	5.94	.8168	6.38	.8773
4.63	.6366	5.07	.6971	5.51	.7577	5.95	.8182	6.39	.8787
4.64	.6380	5.08	.6985	5.52	.7590	5.96	.8195	6.40	.8800
4.65	.6394	5.09	.6999	5.53	.7604	5.97	.8209	6.41	.8814
4.66	.6408	5.10	.7013	5.54	.7618	5.98	.8223	6.42	.8827
4.67	.6421	5.11	.7027	5.55	.7632	5.99	.8237	6.43	.8841
4.68	.6435	5.12	.7040	5.56	.7645	6.00	.8250	6.44	.8855
4.69	.6449	5.13	.7054	5.57	.7659	6.01	.8264	6.45	.8869
4.70	.6463	5.14	.7068	5.58	.7673	6.02	.8278	6.46	.8882
4.71	.6476	5.15	.7082	5.59	.7687	6.03	.8292	6.47	.8896
4.72	.6490	5.16	.7095	5.60	.7700	6.04	.8305	6.48	.8910
4.73	.6503	5.17	.7109	5.61	.7714	6.05	.8319	6.49	.8924
4.74	.6517	5.18	.7123	5.62	.7728	6.06	.8333	6.50	.8938
4.75	.6531	5.19	.7137	5.63	.7741	6.07	.8347	6.51	.8952
4.76	.6545	5.20	.7150	5.64	.7755	6.08	.8360	6.52	.8965
4.77	.6558	5.21	.7164	5.65	.7769	6.09	.8374	6.53	.8979
4.78	.6572	5.22	.7178	5.66	.7783	6.10	.8388	6.54	.8993
4.79	.6586	5.23	.7191	5.67	.7796	6.11	.8402	6.55	.9007
4.80	.6600	5.24	.7205	5.68	.7810	6.12	.8415	6.56	.9020
4.81	.6614	5.25	.7219	5.69	.7824	6.13	.8429	6.57	.9034
4.82	.6628	5.26	.7233	5.70	.7838	6.14	.8443	6.58	.9048
4.83	.6641	5.27	.7246	5.71	.7852	6.15	.8457	6.59	.9062
4.84	.6655	5.28	.7260	5.72	.7865	6.16	.8470	6.60	.9075

TABLE FOR CONVERTING $BaSO_4$ TO S—(*Continued.*)

BaSO4	S	BaSO4	S	BaSO4	S	BaSO4	S	BaSO4	S
6.61	.9089	7.05	.9694	7.49	1.0299	7.93	1.0904	8.37	1.1509
6.62	.9102	7.06	.9707	7.50	1.0313	7.94	1.0918	8.38	1.1523
6.63	.9116	7.07	.9721	7.51	1.0327	7.95	1.0932	8.39	1.1537
6.64	.9130	7.08	.9735	7.52	1.0340	7.96	1.0945	8.40	1.1551
6.65	.9144	7.09	.9749	7.53	1.0354	7.97	1.0959	8.41	1.1564
6.66	.9157	7.10	.9763	7.54	1.0368	7.98	1.0973	8.42	1.1577
6.67	.9171	7.11	.9777	7.55	1.0382	7.99	1.0987	8.43	1.1591
6.68	.9185	7.12	.9790	7.56	1.0395	8.00	1.1001	8.44	1.1605
6.69	.9199	7.13	.9804	7.57	1.0409	8.01	1.1014	8.45	1.1619
6.70	.9213	7.14	.9818	7.58	1.0423	8.02	1.1028	8.46	1.1632
6.71	.9227	7.15	.9832	7.59	1.0437	8.03	1.1042	8.47	1.1646
6.72	.9240	7.16	.9845	7.60	1.0450	8.04	1.1056	8.48	1.1660
6.73	.9254	7.17	.9859	7.61	1.0464	8.05	1.1069	8.49	1.1674
6.74	.9268	7.18	.9873	7.62	1.0477	8.06	1.1083	8.50	1.1688
6.75	.9282	7.19	.9887	7.63	1.0491	8.07	1.1097	8.51	1.1702
6.76	.9295	7.20	.9900	7.64	1.0505	8.08	1.1111	8.52	1.1715
6.77	.9309	7.21	.9914	7.65	1.0519	8.09	1.1124	8.53	1.1729
6.78	.9323	7.22	.9927	7.66	1.0532	8.10	1.1138	8.54	1.1743
6.79	.9337	7.23	.9941	7.67	1.0546	8.11	1.1152	8.55	1.1757
6.80	.9350	7.24	.9955	7.68	1.0560	8.12	1.1165	8.56	1.1770
6.81	.9364	7.25	.9969	7.69	1.0574	8.13	1.1179	8.57	1.1784
6.82	.9377	7.26	.9982	7.70	1.0588	8.14	1.1193	8.58	1.1798
6.83	.9391	7.27	.9996	7.71	1.0602	8.15	1.1207	8.59	1.1812
6.84	.9405	7.28	1.0010	7.72	1.0615	8.16	1.1220	8.60	1.1826
6.85	.9419	7.29	1.0024	7.73	1.0629	8.17	1.1234	8.61	1.1839
6.86	.9432	7.30	1.0038	7.74	1.0643	8.18	1.1248	8.62	1.1853
6.87	.9446	7.31	1.0052	7.75	1.0657	8.19	1.1262	8.63	1.1867
6.88	.9460	7.32	1.0065	7.76	1.0670	8.20	1.1276	8.64	1.1881
6.89	.9474	7.33	1.0079	7.77	1.0684	8.21	1.1289	8.65	1.1894
6.90	.9488	7.34	1.0093	7.78	1.0698	8.22	1.1303	8.66	1.1908
6.91	.9502	7.35	1.0107	7.79	1.0712	8.23	1.1317	8.67	1.1922
6.92	.9515	7.36	1.0120	7.80	1.0725	8.24	1.1331	8.68	1.1936
6.93	.9529	7.37	1.0134	7.81	1.0739	8.25	1.1344	8.69	1.1949
6.94	.9543	7.38	1.0148	7.82	1.0752	8.26	1.1358	8.70	1.1963
6.95	.9557	7.39	1.0162	7.83	1.0766	8.27	1.1372	8.71	1.1977
6.96	.9570	7.40	1.0175	7.84	1.0780	8.28	1.1386	8.72	1.1990
6.97	.9584	7.41	1.0189	7.85	1.0794	8.29	1.1399	8.73	1.2004
6.98	.9598	7.42	1.0202	7.86	1.0807	8.30	1.1413	8.74	1.2018
6.99	.9612	7.43	1.0216	7.87	1.0821	8.31	1.1427	8.75	1.2032
7.00	.9625	7.44	1.0230	7.88	1.0835	8.32	1.1440	8.76	1.2045
7.01	.9639	7.45	1.0244	7.89	1.0849	8.33	1.1454	8.77	1.2059
7.02	.9652	7.46	1.0257	7.90	1.0863	8.34	1.1468	8.78	1.2073
7.03	.9666	7.47	1.0271	7.91	1.0877	8.35	1.1482	8.79	1.2087
7.04	.9680	7.48	1.0285	7.92	1.0890	8.36	1.1495	8.80	1.2101

REESE LIBRARY
OF THE
UNIVERSITY
OF CALIFORNIA

TABLE FOR CONVERTING $BaSO_4$ TO S—(*Continued.*)

$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S	$BaSO_4$	S
8.81	1.2114	9.07	1.2472	9.33	1.2829	9.59	1.3187	9.84	1.3531
8.82	1.2128	9.08	1.2486	9.34	1.2843	9.60	1.3201	9.85	1.3544
8.83	1.2142	9.09	1.2499	9.35	1.2857	9.61	1.3214	9.86	1.3558
8.84	1.2156	9.10	1.2513	9.36	1.2870	9.62	1.3228	9.87	1.3572
8.85	1.2169	9.11	1.2527	9.37	1.2884	9.63	1.3242	9.88	1.3586
8.86	1.2183	9.12	1.2540	9.38	1.2898	9.64	1.3256	9.89	1.3599
8.87	1.2197	9.13	1.2554	9.39	1.2912	9.65	1.3269	9.90	1.3613
8.88	1.2211	9.14	1.2568	9.40	1.2926	9.66	1.3283	9.91	1.3627
8.89	1.2224	9.15	1.2582	9.41	1.2939	9.67	1.3297	9.92	1.3640
8.90	1.2238	9.16	1.2595	9.42	1.2953	9.68	1.3311	9.93	1.3654
8.91	1.2252	9.17	1.2609	9.43	1.2967	9.69	1.3324	9.94	1.3668
8.92	1.2265	9.18	1.2623	9.44	1.2981	9.70	1.3338	9.95	1.3682
8.93	1.2279	9.19	1.2637	9.45	1.2994	9.71	1.3352	9.96	1.3695
8.94	1.2293	9.20	1.2651	9.46	1.3008	9.72	1.3365	9.97	1.3709
8.95	1.2307	9.21	1.2664	9.47	1.3022	9.73	1.3379	9.98	1.3723
8.96	1.2320	9.22	1.2678	9.48	1.3036	9.74	1.3393	9.99	1.3737
8.97	1.2334	9.23	1.2692	9.49	1.3049	9.75	1.3407	10.00	1.3751
8.98	1.2348	9.24	1.2706	9.50	1.3063	9.76	1.3420	20.00	2.7501
8.99	1.2362	9.25	1.2719	9.51	2.3077	9.77	1.3434	30.00	4.1252
9.00	1.2376	9.26	1.2733	9.52	1.3090	9.78	1.3448	40.00	5.5002
9.01	1.2389	9.27	1.2747	9.53	1.3104	9.79	1.3462	50.00	6.8753
9.02	1.2403	9.28	1.2761	9.54	1.3118	9.80	1.3476	60.00	8.2504
9.03	1.2417	9.29	1.2774	9.55	1.3132	9.81	1.3489	70.00	9.6254
9.04	1.2431	9.30	1.2788	9.56	1.3145	9.82	2.3503	80.00	11.0005
9.05	1.2444	9.31	1.2802	9.57	1.3159	9.83	1.3517	90.00	12.3755
9.06	1.2458	9.32	1.2815	9.58	1.3173				

TABLE FOR THE TENSION OF AQUEOUS VAPOR FOR TEMPERATURES FROM −2° TO 110° CENT. (BUNSEN).

Degrees Cent.	Tension in Millimetres.	Degrees Cent.	Tension in Millimetres.	Degrees Cent.	Tension in Millimetres.	Degrees Cent.	Tension in Millimetres.	Degrees Cent.	Tension in Millimetres.
−2.0	3.955	6	6.998	14	11.908	22	19.659	30	31.548
−1.8	4.016	6.2	7.095	14.2	12.064	22.2	19.901	40	54.906
−1.6	4.078	6.4	7.193	14.4	12.220	22.4	20.143	45	71.391
−1.4	4.140	6.6	7.292	14.6	12.378	22.6	20.389	50	91.982
−1.2	4.203	6.8	7.392	14.8	12.538	22.8	20.639	55	117.478
−1	4 267	7	7.492	15	12.699	23	20.888	60	148.791
−0.8	4.331	7.2	7.595	15.2	12.864	23.2	21.144	65	186.945
−0.6	4.397	7.4	7.699	15.4	13.029	23.4	21.400	70	233.093
−0.4	4.463	7.6	7.804	15.6	13.197	23.6	21.659	75	288.517
−0.2	4.531	7.8	7.910	15.8	13.366	23.8	21.921	80	354.643
0	4.600	8	8.017	16	13.536	24	22.184	85	433.041
+0.2	4.667	8.2	8.126	16.2	13.710	24.2	22.453	90	525.450
0.4	4.733	8.4	8.236	16.4	13.885	24.4	22.723	95	633.778
0.6	4.801	8.6	8.347	16.6	14.062	24.6	22.996	99	733.21
0.8	4.871	8.8	8.461	16.8	14.241	24.8	23.273	99.1	735.85
1	4.940	9	8.574	17	14.421	25	23.550	99.2	738.5
1.2	5.011	9.2	8.690	17.2	14.605	25.2	23.834	99.3	741.16
1.4	5.082	9.4	8.807	17.4	14.790	25.4	24.119	99.4	743.83
1.6	5.155	9.6	8.925	17.6	14.977	25.6	24.406	99.5	746.5
1.8	5.228	9.8	9.045	17.8	15.167	25.8	24.697	99.6	749.18
2	5.302	10	9.165	18	15.357	26	24.988	99.7	751.87
2.2	5.378	10.2	9.288	18.2	15.552	26.2	25.288	99.8	754.57
2.4	5.454	10.4	9.412	18.4	15.747	26.4	25.588	99.9	757.28
2.6	5.530	10.6	9.537	18.6	15.945	26.6	25.891	100	760
2.8	5.608	10.8	9.665	18.8	16.145	26.8	26.198	100.1	762.73
3	5.687	11	9.792	19	16.346	27	26.505	100.2	765.46
3.2	5.767	11.2	9.923	19.2	16.552	27.2	26.820	100.3	768.20
3.4	5.848	11.4	10.054	19.4	16.758	27.4	27.136	100.4	771.95
3.6	5.930	11.6	10.187	19.6	16.967	27.6	27.455	100.5	773.71
3.8	6.014	11.8	10.322	19.8	17.179	27.8	27.778	100.6	776.48
4	6.097	12	10.457	20	17.391	28	28.101	100.7	779.26
4.2	6.183	12.2	10.596	20.2	17.608	28.2	28.433	100.8	782.04
4.4	6.270	12.4	10.734	20.4	17.826	28.4	28.765	100.9	784.83
4.6	6.357	12.6	10.875	20.6	18.047	28.6	29.101	101	787.63
4.8	6.445	12.8	11.019	20.8	18.271	28.8	29.441	105	960.41
5	6.534	13	11.162	21	18.495	29	29.782	110	1075.37
5.2	6.625	13.2	11.309	21.2	18.724	29.2	30.131		
5.4	6.717	13.4	11.456	21.4	18.954	29.4	30.479		
5.6	6.810	13.6	11.605	21.6	19.187	29.6	30.833		
5.8	6.904	13.8	11.757	21.8	19.423	29.8	31.190		

TABLE OF PERCENTAGE COMPOSITION.

$AlK(SO_4)_2 + 12H_2O$	Al 5.707	K 8.245	$(SO_4)_2$ 40.501	$12H_2O$ 45.547		
$KSbC_4H_4O_7 + \frac{1}{2}H_2O$	K 11.767	Sb 36.174	C_4 14.444	H_4 1.206	O_7 33.699	$\frac{1}{2}H_2O$ 2.709
As_2O_3	As_2 75.779	O_3 24.220				
$BaCO_3$	Ba 69.554	CO_3 30.445				
$BaCl_2 + 2H_2O$	Ba 56.182	Cl_2 29.060	$2H_2O$ 14.758			
$Bi(NO_3)_3 + 5H_2O$	Bi 42.959	$(NO_3)_3$ 38.448	$5H_2O$ 18.592			
CdS	Cd 77.760	S 22.239				
$CaCO_3$	Ca 40.049	CO_3 59.950	CO_2 43.964			
$K_2Cr_2O_7$	K_2 26.562	Cr_2 35.404	O_7 38.034			
$K_2Co(SO_4)_2 + 6H_2O$	K_2 17.883	Co 13.494	$(SO_4)_2$ 43.924	$6H_2O$ 24.698		
$CuSO_4 + 5H_2O$	Cu 25.388	SO_4 38.516	$5H_2O$ 36.096			
$Fe(NH_4)_2(SO_4)_2 + 6H_2O$	Fe 14.285	$(NH_4)_2$ 9.208	$(SO_4)_2$ 48.970	$6H_2O$ 27.537		
$Pb(NO_3)_2$	Pb 62.511	$(NO_3)_2$ 37.488				
$MgSO_4 + 7H_2O$	Mg 9.757	SO_4 39.031	$7H_2O$ 51.211			
$Mn(NH_4)_2(SO_4)_2 + 6H_2O$	Mn 13.843	$(NH_4)_2$ 9.255	$(SO_4)_2$ 49.223	$6H_2O$ 27.678		
$HgCl_2$	Hg 73.844	Cl_2 26.156				
$(NH_4)_2Ni(SO_4)_2 + 6H_2O$	$(NH_4)_2$ 9.161	Ni 14.724	$(SO_4)_2$ 48.719	$6H_2O$ 27.397		
$NH_4NaHPO_4 + 4H_2O$	NH_4 8.633	Na 11.025	H .479	P 14.834	$4H_2O$ 34.430	O_4 30.598
$Na_2HPO_4 + 12H_2O$	Na_2 12.870	H .279	PO_4 26.535	$12H_2O$ 60.316		
KCl	K 52.452	Cl 47.547				
$AgNO_3$	Ag 63.492	NO_3 36.507				
$NaBr$	Na 22.378	Br 77.621				
$NaCl$	Na 39.402	Cl 60.598				
$Sr(NO_3)_2$	Sr 41.371	$(NO_3)_2$ 58.628				
SnO_2	Sn 78.662	O_2 21.337				
$K_2Zn(SO_4)_2 + 6H_2O$	K_2 17.639	Zn 14.671	$(SO_4)_2$ 43.326	$6H_2O$ 24.363		

TABLE FOR CONVERTING THE PERCENTAGE OF Na_2O IN CAUSTIC SODA WITH THE ENGLISH ATOMIC WEIGHTS INTO ITS LIVERPOOL EQUIVALENT.

English.	Liverpool.	English.	Liverpool.	English.	Liverpool.	English.	Liverpool.	English.	Liverpool.
70	72.26	70.44	72.71	70.88	73.17	71.32	73.62	71.76	74.07
70.01	72.27	70.45	72.72	70.89	73.18	71.33	73.63	71.77	74.09
70.02	72.28	70.46	72.73	70.90	73.19	71.34	73.64	71.78	74.10
70.03	72.29	70.47	72.74	70.91	73.20	71.35	73.65	71.79	74.11
70.04	72.30	70.48	72.75	70.92	73.21	71.36	73.66	71.80	74.12
70.05	72.31	70.49	72.76	70.93	73.22	71.37	73.67	71.81	74.13
70.06	72.32	70.50	72.77	70.94	73.23	71.38	73.68	71.82	74.14
70.07	72.33	70.51	72.78	70.95	73.24	71.39	73.69	71.83	74.15
70.08	72.34	70.52	72.79	70.96	73.25	71.40	73.70	71.84	74.16
70.09	72.35	70.53	72.81	70.97	73.26	71.41	73.71	71.85	74.17
70.10	72.36	70.54	72.82	70.98	73.27	71.42	73.72	71.86	74.18
70.11	72.37	70.55	72.83	70.99	73.28	71.43	73.73	71.87	74.19
70.12	72.38	70.56	72.84	71	73.29	71.44	73.74	71.88	74.20
70.13	72.39	70.57	72.85	71.01	73.30	71.45	73.75	71.89	74.21
70.14	72.40	70.58	72.86	71.02	73.31	71.46	73.77	71.90	74.22
70.15	72.41	70.59	72.87	71.03	73.32	71.47	73.78	71.91	74.23
70.16	72.42	70.60	72.88	71.04	73.33	71.48	73.79	71.92	74.24
70.17	72.43	70.61	72.89	71.05	73.34	71.49	73.80	71.93	74.25
70.18	72.44	70.62	72.90	71.06	73.35	71.50	73.81	71.94	74.26
70.19	72.45	70.63	72.91	71.07	73.36	71.51	73.82	71.95	74.27
70.20	72.46	70.64	72.92	71.08	73.37	71.52	73.83	71.96	74.28
70.21	72.47	70.65	72.93	71.09	73.38	71.53	73.84	71.97	74.29
70.22	72.49	70.66	72.94	71.10	73.39	71.54	73.85	71.98	74.30
70.23	72.50	70.67	72.95	71.11	73.40	71.55	73.86	71.99	74.31
70.24	72.51	70.68	72.96	71.12	73.41	71.56	73.87	72	74.32
70.25	72.52	70.69	72.97	71.13	73.42	71.57	73.88	72.01	74.33
70.26	72.53	70.70	72.98	71.14	73.43	71.58	73.89	72.02	74.34
70.27	72.54	70.71	72.99	71.15	73.45	71.59	73.90	72.03	74.35
70.28	72.55	70.72	73	71.16	73.46	71.60	73.91	72.04	74.36
70.29	72.56	70.73	73.01	71.17	73.47	71.61	73.92	72.05	74.37
70.30	72.57	70.74	73.02	71.18	73.48	71.62	73.93	72.06	74.38
70.31	72.58	70.75	73.03	71.19	73.49	71.63	73.94	72.07	74.39
70.32	72.59	70.76	73.04	71.20	73.50	71.64	73.95	72.08	74.41
70.33	72.60	70.77	73.05	71.21	73.51	71.65	73.96	72.09	74.42
70.34	72.61	70.78	73.06	71.22	73.52	71.66	73.97	72.10	74.43
70.35	72.62	70.79	73.07	71.23	73.53	71.67	73.98	72.11	74.44
70.36	72.63	70.80	73.08	71.24	73.54	71.68	73.99	72.12	74.45
70.37	72.64	70.81	73.09	71.25	73.55	71.69	74	72.13	74.46
70.38	72.65	70.82	73.10	71.26	73.56	71.70	74.01	72.14	74.47
70.39	72.66	70.83	73.11	71.27	73.57	71.71	74.02	72.15	74.48
70.40	72.67	70.84	73.13	71.28	73.58	71.72	74.03	72.16	74.49
70.41	72.68	70.85	73.14	71.29	73.59	71.73	74.04	72.17	74.50
70.42	72.69	70.86	73.15	71.30	73.60	71.74	74.05	72.18	74.51
70.43	72.70	70.87	73.16	71.31	73.61	71.75	74.06	72.19	74.52

TABLE FOR CONVERTING THE PERCENTAGE OF Na_2O. (*Continued.*)

English.	Liverpool.	English.	Liverpool.	English.	Liverpool.	English.	Liverpool.	English.	Liverpool.
72.20	74.53	72.67	75.01	73.13	75.49	73.59	75.96	74.05	76.44
72.21	74.54	72.68	75.02	73.14	75.50	73.60	75.97	74.06	76.45
72.22	74.55	72.69	75.03	73.15	75.51	73.61	75.98	74.07	76.46
72.23	74.56	72.70	75.05	73.16	75.52	73.62	75.99	74.08	76.47
72.24	74.57	72.71	75.06	73.17	75.53	73.63	76.01	74.09	76.48
72.25	74.58	72.72	75.07	73.18	75.54	73.64	76.02	74.10	76.49
72.26	74.59	72.73	75.08	73.19	75.55	73.65	76.03	74.11	76.50
72.27	74.60	72.74	75.09	73.20	75.56	73.66	76.04	74.12	76.51
72.28	74.61	72.75	75.10	73.21	75.57	73.67	76.05	74.13	76.52
72.29	74.62	72.76	75.11	73.22	75.58	73.68	76.06	74.14	76.53
72.30	74.63	72.77	75.12	73.23	75.59	73.69	76.07	74.15	76.54
72.31	74.64	72.78	75.13	73.24	75.60	73.70	76.08	74.16	76.55
72.32	74.65	72.79	75.14	73.25	75.61	73.71	76.09	74.17	76.56
72.33	74.66	72.80	75.15	73.26	75.62	73.72	76.10	74.18	76.57
72.34	74.67	72.81	75.16	73.27	75.63	73.73	76.11	74.19	76.58
72.35	74.68	72.82	75.17	73.28	75.64	73.74	76.12	74.20	76.59
72.36	74.69	72.83	75.18	73.29	75.65	73.75	76.13	74.21	76.60
72.37	74.70	72.84	75.19	73.30	75.66	73.76	76.14	74.22	76.61
72.38	74.71	72.85	75.20	73.31	75.67	73.77	76.15	74.23	76.62
72.39	74.73	72.86	75.21	73.32	75.69	73.78	76.16	74.24	76.63
72.40	74.74	72.87	75.22	73.33	75.70	73.79	76.17	74.25	76.65
72.41	74.75	72.88	75.23	73.34	75.71	73.80	76.18	74.26	76.66
72.42	74.76	72.89	75.24	73.35	75.72	73.81	76.19	74.27	76.67
72.43	74.77	72.90	75.25	73.36	75.73	73.82	76.20	74.28	76.68
72.44	74.78	72.91	75.26	73.37	75.74	73.83	76.21	74.29	76.69
72.45	74.79	72.92	75.27	73.38	75.75	73.84	76.22	74.30	76.70
72.46	74.80	72.93	75.28	73.39	75.76	73.85	76.23	74.31	76.71
72.47	74.81	72.94	75.29	73.40	75.77	73.86	76.24	74.32	76.72
72.48	74.82	72.95	75.30	73.41	75.78	73.87	76.25	74.33	76.73
72.49	74.83	72.96	75.31	73.42	75.79	73.88	76.26	74.34	76.74
72.50	74.84	72.97	75.32	73.43	75.80	73.89	76.27	74.35	76.75
72.51	74.85	72.98	75.33	73.44	75.81	73.90	76.28	74.36	76.76
72.52	74.86	72.99	75.34	73.45	75.82	73.91	76.29	74.37	76.77
72.53	74.87	73	75.35	73.46	75.83	73.92	76.30	74.38	76.78
72.54	74.88	73.01	75.37	73.47	75.84	73.93	76.31	74.39	76.79
72.55	74.89	73.02	75.38	73.48	75.85	73.94	76.33	74.40	76.80
72.56	74.90	73.03	75.39	73.49	75.86	73.95	76.34	74.41	76.81
72.57	74.91	73.04	75.40	73.50	75.87	73.96	76.35	74.42	76.82
72.58	74.92	73.05	75.41	73.51	75.88	73.97	76.36	74.43	76.83
72.59	74.93	73.06	75.42	73.52	75.89	73.98	76.37	74.44	76.84
72.60	74.94	73.07	75.43	73.53	75.90	73.99	76.38	74.45	76.85
72.61	74.95	73.08	75.44	73.54	75.91	74	76.39	74.46	76.86
72.62	74.96	73.09	75.45	73.55	75.92	74.01	76.40	74.47	76.87
72.63	74.97	73.10	75.46	73.56	75.93	74.02	76.41	74.48	76.88
72.64	74.98	73.11	75.47	73.57	75.94	74.03	76.42	74.49	76.89
72.65	74.99	73.12	75.48	73.58	75.95	74.04	76.43	74.50	76.90
72.66	75								

TABLE FOR CONVERTING MILLIGRAMS PER LITRE TO GRAINS, U. S. GALLON.

Milli-grams per Litre.	Grains, U. S. Gallon.	Milli-grams per Litre.	Grains, U. S. Gallon.	Milli-grams per Litre.	Grains, U. S. Gallon.	Milli-grams per Litre.	Grains, U. S. Gallon.
1	0.058318	32	1.866176	63	3.674034	94	5.481892
2	0.116636	33	1.924494	64	3.732352	95	5.540210
3	0.174954	34	1.982812	65	3.790670	96	5.598528
4	0.233272	35	2.041130	66	3.848988	97	5.656846
5	0.291590	36	2.099448	67	3.907306	98	5.715164
6	0.349908	37	2.157766	68	3.965624	99	5.773482
7	0.408226	38	2.216084	69	4.023942	100	5.831800
8	0.466544	39	2 274402	70	4.082260	101	5.890118
9	0.524862	40	2.332720	71	4.140578	102	5.948436
10	0.583180	41	2.391038	72	4.198896	103	6.006754
11	0.641498	42	2 449356	73	4.257214	104	6.065072
12	0.699816	43	2.507674	74	4.315532	105	6.123390
13	0.758134	44	2.565992	75	4.373850	106	6.181708
14	0.816452	45	2.624310	76	4.432168	107	6.240026
15	0.874770	46	2.682628	77	4 490486	108	6.298344
16	0.933088	47	2.740946	78	4.548804	109	5.356662
17	0.991406	48	2 799264	79	4.607122	110	6.414980
18	1.049724	49	2.857582	80	4.665440	111	6 473298
19	1.108042	50	2.915900	81	4.723758	112	6.531616
20	1.166360	51	2.974218	82	4.782076	113	6.589934
21	1.224678	52	3.032536	83	4.840394	114	6.648252
22	1.282996	53	3.090854	84	4.898712	115	6 706570
23	1.341314	54	3.149172	85	4.957030	116	[illegible]
24	1.399632	55	3.207400	86	5.015348	117	[illegible]
25	1.457950	56	3.265898	87	5.073666	118	[illegible]
26	1.516268	57	3.324126	88	5.131984	119	6 939842
27	1.574586	58	3.382444	89	5.190302	120	6.998160
28	1.632904	59	3 440792	90	5.248620	121	7.056478
29	1.691222	60	[illegible]	91	5.306938	122	[illegible]
30	1.749540	61	[illegible]	92	5.365256	123	7.173114
31	1.807858	62	3.615716	93	5.423574	124	7.231432
						125	7.289750

TABLE FOR CALCULATING THE ACTUAL NUMBER OF CUBIC CENTIMETRES USED WHEN SOLUTION IS NOT NORMAL. THE FACTOR IS GIVEN AT THE HEAD, AND THE C. C. USED ON THE LEFT.

C. C. USED.	Factor .900	Factor .901	Factor .902	Factor .903	Factor .904	Factor .905	Factor .906	Factor .907	Factor .908	Factor .909	Factor .910	Factor .911	Factor .912	Factor .913	Factor .914
2	1.8	1.802	1.804	1.806	1.808	1.810	1.812	1.814	1.816	1.818	1.820	1.822	1.824	1.826	1.828
3	2.7	2.703	2.706	2.709	2.712	2.715	2.718	2.721	2.724	2.727	2.730	2.733	2.736	2.739	2.742
4	3.6	3.604	3.608	3.612	3.616	3.620	3.624	3.628	3.632	3.636	3.640	3.644	3.648	3.652	3.656
5	4.5	4.505	4.510	4.515	4.520	4.525	4.530	4.535	4.540	4.545	4.550	4.555	4.560	4.565	4.570
6	5.4	5.406	5.412	5.418	5.424	5.430	5.436	5.442	5.448	5.454	5.460	5.466	5.472	5.478	5.484
7	6.3	6.307	6.314	6.321	6.328	6.335	6.342	6.349	6.356	6.363	6.370	6.377	6.384	6.391	6.398
8	7.2	7.208	7.216	7.224	7.232	7.240	7.248	7.256	7.264	7.272	7.280	7.288	7.296	7.304	7.312
9	8.1	8.109	8.118	8.127	8.136	8.145	8.154	8.163	8.172	8.181	8.199	8.199	8.208	8.217	8.226
10	9.0	9.010	9.020	9.030	9.040	9.050	9.060	9.070	9.080	9.090	9.100	9.110	9.120	9.130	9.140
11	9.9	9.911	9.922	9.933	9.944	9.955	9.966	9.977	9.988	9.999	10.010	10.021	10.032	10.043	10.054
12	10.8	10.812	10.824	10.836	10.848	10.860	10.872	10.884	10.896	10.908	10.920	10.932	10.944	10.956	10.968
13	11.7	11.713	11.726	11.739	11.752	11.765	11.778	11.791	11.804	11.817	11.830	11.843	11.856	11.869	11.882
14	12.6	12.614	12.628	12.642	12.656	12.670	12.684	12.698	12.712	12.726	12.740	12.754	12.768	12.782	12.796
15	13.5	13.515	13.530	13.545	13.560	13.575	13.590	13.605	13.620	13.635	13.650	13.665	13.680	13.695	13.710
16	14.4	14.416	14.432	14.448	14.464	14.480	14.496	14.512	14.528	14.544	14.560	14.576	14.592	14.608	14.624
17	15.3	15.317	15.334	15.351	15.368	15.385	15.402	15.419	15.436	15.453	15.470	15.487	15.504	15.521	15.538
18	16.2	16.218	16.236	16.254	16.272	16.290	16.308	16.326	16.344	16.362	16.380	16.398	16.416	16.434	16.452
19	17.1	17.119	17.138	17.157	17.176	17.195	17.214	17.233	17.252	17.271	17.290	17.309	17.328	17.347	17.366
20	18.0	18.020	18.040	18.060	18.080	18.100	18.120	18.140	18.160	18.180	18.200	18.220	18.240	18.260	18.280
21	18.9	18.921	18.942	18.963	18.984	19.005	19.026	19.047	19.068	19.089	19.110	19.131	19.152	19.173	19.194
22	19.8	19.822	19.844	19.866	19.888	19.910	19.932	19.954	19.976	19.998	20.020	20.042	20.064	20.086	20.108
23	20.7	20.723	20.746	20.769	20.792	20.815	20.838	20.861	20.884	20.907	20.930	20.953	20.976	20.999	21.022
24	21.6	21.624	21.648	21.672	21.696	21.720	21.744	21.768	21.792	21.816	21.840	21.864	21.888	21.912	21.936
25	22.5	22.525	22.550	22.575	22.600	22.625	22.650	22.675	22.700	22.725	22.750	22.775	22.800	22.825	22.850

TABLE FOR CALCULATING THE ACTUAL NUMBER OF CUBIC CENTIMETRES USED. (*Continued.*)

C. C. USED.	Factor .915	Factor .916	Factor .917	Factor .918	Factor .919	Factor .920	Factor .921	Factor .922	Factor .923	Factor .924	Factor .925	Factor .926	Factor .927	Factor .928	Factor .929
2	1.830	1.832	1.834	1.836	1.838	1.840	1.842	1.844	1.846	1.848	1.850	1.852	1.854	1.856	1.858
3	2.745	2.748	2.751	2.754	2.757	2.760	2.763	2.766	2.769	2.772	2.775	2.778	2.781	2.784	2.787
4	3.660	3.664	3.668	3.672	3.676	3.680	3.684	3.688	3.692	3.696	3.700	3.704	3.708	3.712	3.716
5	4.575	4.580	4.585	4.590	4.595	4.600	4.605	4.610	4.615	4.620	4.625	4.630	4.635	4.640	4.645
6	5.490	5.496	5.502	5.508	5.514	5.520	5.526	5.532	5.538	5.544	5.550	5.556	5.562	5.568	5.574
7	6.405	6.412	6.419	6.426	6.433	6.440	6.447	6.454	6.461	6.468	6.475	6.482	6.489	6.496	6.503
8	7.320	7.328	7.336	7.344	7.352	7.360	7.368	7.376	7.384	7.392	7.400	7.408	7.416	7.424	7.432
9	8.235	8.244	8.253	8.262	8.271	8.280	8.289	8.298	8.307	8.316	8.325	8.334	8.343	8.352	8.361
10	9.150	9.160	9.170	9.180	9.190	9.200	9.210	9.220	9.230	9.240	9.250	9.260	9.270	9.280	9.290
11	10.065	10.076	10.087	10.098	10.109	10.120	10.131	10.142	10.153	10.164	10.175	10.186	10.197	10.208	10.219
12	10.980	10.992	11.004	11.016	11.028	11.040	11.052	11.064	11.076	11.088	11.100	11.112	11.124	11.236	11.248
13	11.895	11.908	11.921	11.934	11.947	11.960	11.973	11.986	11.999	12.012	12.025	12.038	12.051	12.064	12.077
14	12.810	12.824	12.838	12.852	12.866	12.880	12.894	12.908	12.922	12.936	12.950	12.964	12.978	12.992	13.006
15	13.725	13.740	13.755	13.770	13.785	13.800	13.815	13.830	13.845	13.860	13.875	13.890	13.905	13.920	13.935
16	14.640	14.656	14.672	14.688	14.704	14.720	14.736	14.752	14.768	14.784	14.800	14.816	14.832	14.848	14.864
17	15.555	15.572	15.589	15.606	15.623	15.640	15.657	15.674	15.691	15.708	15.725	15.742	15.759	15.776	15.793
18	16.470	16.488	16.506	16.524	16.542	16.560	16.578	16.596	16.614	16.632	16.650	16.668	16.686	16.704	16.722
19	17.385	17.404	17.423	17.442	17.461	17.480	17.499	17.518	17.537	17.556	17.575	17.594	17.613	17.632	17.651
20	18.300	18.320	18.340	18.360	18.380	18.400	18.420	18.440	18.460	18.480	18.500	18.520	18.540	18.560	18.580
21	19.215	19.236	19.257	19.278	19.299	19.320	19.341	19.362	19.383	19.404	19.425	19.446	19.467	19.488	19.509
22	20.130	20.152	20.174	20.196	20.218	20.240	20.262	20.284	20.306	20.328	20.350	20.372	20.394	20.416	20.438
23	21.045	21.068	21.091	21.114	21.137	21.160	21.183	21.206	21.229	21.252	21.275	21.298	21.321	21.344	21.367
24	21.960	21.984	22.008	22.032	22.056	22.080	22.104	22.128	22.152	22.176	22.200	22.224	22.248	22.272	22.296
25	22.875	22.900	22.925	22.950	22.975	23.000	23.025	23.050	23.075	23.100	23.125	23.150	23.175	23.200	23.225

TABLE FOR CALCULATING THE ACTUAL NUMBER OF CUBIC CENTIMETRES USED. (*Continued.*)

C. C. USED.	Factor .930	Factor .931	Factor .932	Factor .933	Factor .934	Factor .935	Factor .936	Factor .937	Factor .938	Factor .939	Factor .940	Factor .941	Factor .942	Factor .943	Factor .944
2	1.860	1.862	1.864	1.866	1.868	1.870	1.872	1.874	1.876	1.878	1.880	1.882	1.884	1.886	1.888
3	2.790	2.793	2.796	2.799	2.802	2.805	2.808	2.811	2.814	2.817	2.820	2.823	2.826	2.829	2.832
4	3.720	3.724	3.728	3.732	3.736	3.740	3.744	3.748	3.752	3.756	3.760	3.764	3.768	3.772	3.776
5	4.650	4.655	4.660	4.665	4.670	4.675	4.680	4.685	4.690	4.695	4.700	4.705	4.710	4.715	4.720
6	5.580	5.586	5.592	5.598	5.604	5.610	5.616	5.622	5.628	5.634	5.640	5.646	5.652	5.658	5.664
7	6.510	6.517	6.524	6.531	6.538	6.545	6.552	6.559	6.566	6.573	6.580	6.587	6.594	6.601	6.608
8	7.440	7.448	7.456	7.464	7.472	7.480	7.488	7.496	7.504	7.512	7.520	7.528	7.536	7.544	7.552
9	8.370	8.379	8.388	8.397	8.406	8.415	8.424	8.433	8.442	8.451	8.460	8.469	8.478	8.487	8.496
10	9.300	9.310	9.320	9.330	9.340	9.350	9.360	9.370	9.380	9.390	9.400	9.410	9.420	9.430	9.440
11	10.230	10.241	10.252	10.263	10.274	10.285	10.296	10.307	10.318	10.329	10.340	10.351	10.362	10.373	10.384
12	11.160	11.172	11.184	11.196	11.208	11.220	11.232	11.244	11.256	11.268	11.280	11.292	11.304	11.316	11.328
13	12.090	12.103	12.116	12.129	12.142	12.155	12.168	12.181	12.194	12.207	12.220	12.233	12.246	12.259	12.272
14	13.020	13.034	13.048	13.062	13.076	13.090	13.104	13.118	13.132	13.146	13.160	13.174	13.188	13.202	13.216
15	13.950	13.965	13.980	13.995	14.010	14.025	14.040	14.055	14.070	14.085	14.100	14.115	14.130	14.145	14.160
16	14.880	14.896	14.912	14.928	14.944	14.960	14.976	14.992	15.008	15.024	15.040	15.056	15.072	15.088	15.104
17	15.810	15.827	15.844	15.861	15.878	15.895	15.912	15.929	15.946	15.963	15.980	15.997	16.014	16.031	16.048
18	16.740	16.758	16.776	16.794	16.812	16.830	16.848	16.866	16.884	16.902	16.920	16.938	16.956	16.974	16.992
19	17.670	17.689	17.708	17.727	17.746	17.765	17.784	17.803	17.822	17.841	17.860	17.879	17.898	17.917	17.936
20	18.600	18.620	18.640	18.660	18.680	18.700	18.720	18.740	18.760	18.780	18.800	18.820	18.840	18.860	18.880
21	19.530	19.551	19.572	19.593	19.614	19.635	19.656	19.677	19.698	19.719	19.740	19.761	19.782	19.803	19.824
22	20.460	20.482	20.504	20.526	20.548	20.570	20.592	20.614	20.636	20.658	20.680	20.702	20.724	20.746	20.768
23	21.390	21.413	21.436	21.459	21.482	21.505	21.528	21.551	21.574	21.597	21.620	21.643	21.666	21.689	21.712
24	22.320	22.344	22.368	22.392	22.416	22.440	22.464	22.488	22.512	22.536	22.560	22.584	22.608	22.632	22.656
25	23.250	23.275	23.300	23.325	23.350	23.375	23.400	23.425	23.450	23.475	23.500	23.525	23.550	23.575	23.600

TABLE FOR CALCULATING THE ACTUAL NUMBER OF CUBIC CENTIMETRES USED. (*Continued.*)

C. C. USED.	Factor ·945	Factor ·946	Factor ·947	Factor ·948	Factor ·949	Factor ·950	Factor ·951	Factor ·952	Factor ·953	Factor ·954	Factor ·955	Factor ·956	Factor ·957	Factor ·958	Factor ·959
2	1.890	1.892	1.894	1.896	1.898	1.900	1.902	1.904	1.906	1.908	1.910	1.912	1.914	1.916	1.918
3	2.835	2.838	2.841	2.844	2.847	2.850	2.853	2.856	2.859	2.862	2.865	2.868	2.871	2.874	2.877
4	3.780	3.784	3.788	3.792	3.796	3.800	3.804	3.808	3.812	3.816	3.820	3.824	3.828	3.832	3.836
5	4.725	4.730	4.735	4.740	4.745	4.750	4.755	4.760	4.765	4.770	4.775	4.780	4.785	4.790	4.795
6	5.670	5.676	5.682	5.688	5.694	5.700	5.706	5.712	5.718	5.724	5.730	5.736	5.742	5.748	5.754
7	6.615	6.622	6.629	6.636	6.643	6.650	6.657	6.664	6.671	6.678	6.685	6.692	6.699	6.706	6.713
8	7.560	7.568	7.576	7.584	7.592	7.600	7.608	7.616	7.624	7.632	7.640	7.648	7.656	7.664	7.672
9	8.505	8.514	8.523	8.532	8.541	8.550	8.559	8.568	8.577	8.586	8.595	8.604	8.613	8.622	8.631
10	9.450	9.460	9.470	9.480	9.490	9.500	9.510	9.520	9.530	9.540	9.550	9.560	9.570	9.580	9.590
11	10.395	10.406	10.417	10.428	10.439	10.450	10.461	10.472	10.483	10.494	10.505	10.516	10.527	10.538	10.549
12	11.340	11.352	11.364	11.376	11.388	11.400	11.412	11.424	11.436	11.448	11.460	11.472	11.484	11.496	11.508
13	12.285	12.298	12.311	12.324	12.337	12.350	12.363	12.376	12.389	12.402	12.415	12.428	12.441	12.454	12.467
14	13.230	13.244	13.258	13.272	13.286	13.300	13.314	13.328	13.342	13.356	13.370	13.384	13.398	13.412	13.426
15	14.175	14.190	14.205	14.220	14.235	14.250	14.265	14.280	14.295	14.310	14.325	14.340	14.355	14.370	14.385
16	15.120	15.136	15.152	15.168	15.184	15.200	15.216	15.232	15.248	15.264	15.280	15.296	15.312	15.328	15.344
17	16.065	16.082	16.099	16.116	16.133	16.150	16.167	16.184	16.201	16.218	16.235	16.252	16.269	16.286	16.303
18	17.010	17.028	17.046	17.064	17.082	17.100	17.118	17.136	17.154	17.172	17.190	17.208	17.226	17.244	17.262
19	17.955	17.974	17.993	18.012	18.031	18.050	18.069	18.088	18.107	18.126	18.145	18.164	18.183	18.202	18.221
20	18.900	18.920	18.940	18.960	18.980	19.000	19.020	19.040	19.060	19.080	19.100	19.120	19.140	19.160	19.180
21	19.845	19.866	19.887	19.908	19.929	19.950	19.971	19.992	20.013	20.034	20.055	20.076	20.097	20.118	20.139
22	20.790	20.812	20.834	20.856	20.878	20.900	20.922	20.944	20.966	20.988	21.010	21.032	21.054	21.076	21.098
23	21.735	21.758	21.781	21.804	21.827	21.850	21.873	21.896	21.919	21.942	21.965	21.988	22.011	22.034	22.057
24	22.680	22.704	22.728	22.752	22.776	22.800	22.824	22.848	22.872	22.896	22.920	22.944	22.968	22.992	23.016
25	23.625	23.650	23.675	23.700	23.725	23.750	23.775	23.800	23.825	23.850	23.875	23.900	23.925	23.950	23.975

TABLE FOR CALCULATING THE ACTUAL NUMBER OF CUBIC CENTIMETRES USED. (*Continued.*)

C. C. USED.	Factor .960	Factor .961	Factor .962	Factor .963	Factor .964	Factor .965	Factor .966	Factor .967	Factor .968	Factor .969	Factor .970	Factor .971	Factor .972	Factor .973	Factor .974
2	1,920	1.922	1.924	1.926	1.928	1.930	1.932	1.934	1.936	1.938	1.940	1.942	1.944	1.946	1.948
3	2.880	2.883	2.886	2.889	2.892	2.895	2.898	2.901	2.904	2.907	2.910	2.913	2.916	2.919	2.922
4	3.840	3.844	3.848	3.852	3.856	3.860	3.864	3.868	3.872	3.876	3.880	3.884	3.888	3.892	3.896
5	4.800	4.805	4.810	4.815	4.820	4.825	4.830	4.835	4.840	4.845	4.850	4.855	4.860	4.865	4.870
6	5.760	5.766	5.772	5.778	5.784	5.790	5.796	5.802	5.808	5.814	5.820	5.826	5.832	5.838	5.844
7	6.720	6.727	6.734	6.741	6.748	6.755	6.762	6.769	6.776	6.783	6.790	6.797	6.804	6.811	6.818
8	7.680	7.688	7.696	7.704	7.712	7.720	7.728	7.736	7.744	7.752	7.760	7.768	7.776	7.784	7.792
9	8.640	8.649	8.658	8.667	8.676	8.685	8.694	8.703	8.712	8.721	8.730	8.739	8.748	8.757	8.766
10	9.600	9.610	9.620	9.630	9.640	9.650	9.660	9.670	9.680	9.690	9.700	9.710	9.720	9.730	9.740
11	10.560	10.571	10.582	10.593	10.604	10.615	10.626	10.637	10.648	10.659	10.670	10.681	10.692	10.703	10.714
12	11.520	11.532	11.544	11.556	11.568	11.580	11.592	11.604	11.616	11.628	11.640	11.652	11.664	11.676	11.688
13	12.480	12.493	12.506	12.519	12.532	12.545	12.558	12.571	12.584	12.597	12.610	12.623	12.636	12.649	12.662
14	13.440	13.454	13.468	13.482	13.496	13.510	13.524	13.538	13.552	13.566	13.580	13.594	13.608	13.622	13.636
15	14.400	14.415	14.430	14.445	14.460	14.475	14.490	14.505	14.520	14.535	14.550	14.565	14.580	14.595	14.610
16	15.360	15.376	15.392	15.408	15.424	15.440	15.456	15.472	15.488	15.504	15.520	15.536	15.552	15.568	15.584
17	16.320	16.337	16.354	16.371	16.388	16.405	16.422	16.439	16.456	16.473	16.490	16.507	16.524	16.541	16.558
18	17.280	17.298	17.316	17.334	17.352	17.370	17.388	17.406	17.424	17.442	17.460	17.478	17.496	17.514	17.532
19	18.240	18.259	18.278	18.297	18.316	18.335	18.354	18.373	18.392	18.411	18.430	18.449	18.468	18.487	18.506
20	19.200	19.220	19.240	19.260	19.280	19.300	19.320	19.340	19.360	19.380	19.400	19.420	19.440	19.460	19.480
21	20,160	20.181	20.202	20.223	20.244	20.265	20.286	20.307	20.328	20.349	20.370	20.391	20.412	20.433	20.454
22	21.120	21.142	21.164	21.186	21.208	21.230	21.252	21.274	21.296	21.318	21.340	21.362	21.384	21.406	21.428
23	22.080	22.103	22.126	22.149	22.172	22.195	22.218	22.241	22.264	22.287	22.310	22.333	22.356	22.379	22.402
24	23.040	23.064	23.088	23.112	23.136	23.160	23.184	23.208	23.232	23.256	23.280	23.304	23.328	23.352	23.376
25	24.000	24.025	24.050	24.075	24.100	24.125	24.150	24.175	24.200	24.225	24.250	24.275	24.300	24.325	24.350

TABLE FOR CALCULATING THE ACTUAL NUMBER OF CUBIC CENTIMETRES USED. (*Continued.*)

C. C. USED.	Factor .975	Factor .976	Factor .977	Factor .978	Factor .979	Factor .980	Factor .981	Factor .982	Factor .983	Factor .984	Factor .985	Factor .986	Factor .987	Factor .988	Factor .989
2	1.950	1.952	1.954	1.956	1.958	1.960	1.962	1.964	1.966	1.968	1.970	1.972	1.974	1.976	1.978
3	2.925	2.928	2.931	2.934	2.937	2.940	2.943	2.946	2.949	2.952	2.955	2.958	2.961	2.964	2.967
4	3.900	3.904	3.908	3.912	3.916	3.920	3.924	3.928	3.932	3.936	3.940	3.944	3.948	3.952	3.956
5	4.875	4.880	4.885	4.890	4.895	4.900	4.905	4.910	4.915	4.920	4.925	4.930	4.935	4.940	4.945
6	5.850	5.856	5.862	5.868	5.874	5.880	5.886	5.892	5.898	5.904	5.910	5.916	5.922	5.928	5.934
7	6.825	6.832	6.839	6.846	6.853	6.860	6.867	6.874	6.881	6.888	6.895	6.902	6.909	6.916	6.923
8	7.800	7.808	7.816	7.824	7.832	7.840	7.848	7.856	7.864	7.872	7.880	7.888	7.896	7.904	7.912
9	8.775	8.784	8.793	8.802	8.811	8.820	8.829	8.838	8.847	8.856	8.865	8.874	8.883	8.892	8.901
10	9.750	9.760	9.770	9.780	9.790	9.800	9.810	9.820	9.830	9.840	9.850	9.860	9.870	9.880	9.890
11	10.725	10.736	10.747	10.758	10.769	10.780	10.791	10.802	10.813	10.824	10.835	10.846	10.857	10.868	10.879
12	11.700	11.712	11.724	11.736	11.748	11.760	11.772	11.784	11.796	11.808	11.820	11.832	11.844	11.856	11.868
13	12.675	12.688	12.701	12.714	12.727	12.740	12.753	12.766	12.779	12.792	12.805	12.818	12.831	12.844	12.857
14	13.650	13.664	13.678	13.692	13.706	13.720	13.734	13.748	13.762	13.776	13.790	13.804	13.818	13.832	13.846
15	14.625	14.640	14.655	14.670	14.685	14.700	14.715	14.730	14.745	14.760	14.775	14.790	14.805	14.820	14.835
16	15.600	15.616	15.632	15.648	15.664	15.680	15.696	15.712	15.728	15.744	15.760	15.776	15.792	15.808	15.824
17	16.575	16.592	16.609	16.626	16.643	16.660	16.677	16.694	16.711	16.728	16.745	16.762	16.779	16.796	16.813
18	17.550	17.568	17.586	17.604	17.622	17.640	17.658	17.676	17.694	17.712	17.730	17.748	17.766	17.784	17.802
19	18.525	18.544	18.563	18.582	18.601	18.620	18.639	18.658	18.677	18.696	18.715	18.734	18.753	18.772	18.791
20	19.500	19.520	19.540	19.560	19.580	19.600	19.620	19.640	19.660	19.680	19.700	19.720	19.740	19.760	19.780
21	20.475	20.496	20.517	20.538	20.559	20.580	20.601	20.622	20.643	20.664	20.685	20.706	20.727	20.748	20.769
22	21.450	21.472	21.494	21.516	21.538	21.560	21.582	21.604	21.626	21.648	21.670	21.692	21.714	21.736	21.758
23	22.425	22.448	22.471	22.494	22.517	22.540	22.563	22.586	22.609	22.632	22.655	22.678	22.701	22.724	22.747
24	23.400	23.424	23.448	23.472	23.496	23.520	23.544	23.568	23.592	23.616	23.640	23.664	23.688	23.712	23.736
25	24.375	24.400	24.425	24.450	24.475	24.500	24.525	24.550	24.575	24.600	24.625	24.650	24.675	24.700	24.725

TABLE FOR CALCULATING THE ACTUAL NUMBER OF CUBIC CENTIMETRES USED. (*Continued.*)

C. C. USED.	Factor .990	Factor .991	Factor .992	Factor .993	Factor .994	Factor .995	Factor .996	Factor .997	Factor .998	Factor .999	Factor 1.000	Factor 1.001	Factor 1.002	Factor 1.003	Factor 1.004
2	1.980	1.982	1.984	1.986	1.988	1.990	1.992	1.994	1.996	1.998	2.000	2.002	2.004	2.006	2.008
3	2.970	2.973	2.976	2.979	2.982	2.985	2.988	2.991	2.994	2.997	3.000	3.003	3.006	3.009	3.012
4	3.960	3.964	3.968	3.972	3.976	3.980	3.984	3.988	3.992	3.996	4.000	4.004	4.008	4.012	4.016
5	4.950	4.955	4.960	4.965	4.970	4.975	4.980	4.985	4.990	4.995	5.000	5.005	5.010	5.015	5.020
6	5.940	5.946	5.952	5.958	5.964	5.970	5.976	5.982	5.988	5.994	6.000	6.006	6.012	6.018	6.024
7	6.930	6.937	6.944	6.951	6.958	6.965	6.972	6.979	6.986	6.993	7.000	7.007	7.014	7.021	7.028
8	7.920	7.928	7.936	7.944	7.952	7.960	7.968	7.976	7.984	7.992	8.000	8.008	8.016	8.024	8.032
9	8.910	8.919	8.928	8.937	8.946	8.955	8.964	8.973	8.982	8.991	9.000	9.009	9.018	9.027	9.036
10	9.900	9.910	9.920	9.930	9.940	9.950	9.960	9.970	9.980	9.990	10.000	10.010	10.020	10.030	10.040
11	10.890	10.901	10.912	10.923	10.934	10.945	10.956	10.967	10.978	10.989	11.000	11.011	11.022	11.033	11.044
12	11.880	11.892	11.904	11.916	11.928	11.940	11.952	11.964	11.976	11.988	12.000	12.012	12.024	12.036	12.048
13	12.870	12.883	12.896	12.909	12.922	12.935	12.948	12.961	12.974	12.987	13.000	13.013	13.026	13.039	13.052
14	13.860	13.874	13.888	13.902	13.916	13.930	13.944	13.958	13.972	13.986	14.000	14.014	14.028	14.042	14.056
15	14.850	14.865	14.880	14.895	14.910	14.925	14.940	14.955	14.970	14.985	15.000	15.015	15.030	15.045	15.060
16	15.840	15.856	15.872	15.888	15.904	15.920	15.936	15.952	15.968	15.984	16.000	16.016	16.032	16.048	16.064
17	16.830	16.847	16.864	16.881	16.898	16.915	16.932	16.949	16.966	16.983	17.000	17.017	17.034	17.051	17.068
18	17.820	17.838	17.856	17.874	17.892	17.910	17.928	17.946	17.964	17.982	18.000	18.018	18.036	18.054	18.072
19	18.810	18.829	18.848	18.867	18.886	18.905	18.924	18.943	18.962	18.981	19.000	19.019	19.038	19.057	19.076
20	19.800	19.820	19.840	19.860	19.880	19.900	19.920	19.940	19.960	19.980	20.000	20.020	20.040	20.060	20.080
21	20.790	20.811	20.832	20.853	20.874	20.895	20.916	20.937	20.958	20.979	21.000	21.021	21.042	21.063	21.084
22	21.780	21.802	21.824	21.846	21.868	21.890	21.912	21.934	21.956	21.978	22.000	22.022	22.044	22.066	22.088
23	22.770	22.793	22.816	22.839	22.862	22.885	22.908	22.931	22.954	22.977	23.000	23.023	23.046	23.069	23.092
24	23.760	23.784	23.808	23.832	23.856	23.880	23.904	23.928	23.952	23.976	24.000	24.024	24.048	24.072	24.096
25	24.750	24.775	24.800	24.825	24.850	24.875	24.900	24.925	24.950	24.975	25.000	25.025	25.050	25.075	25.100

TABLE OF THE ABSORPTION OF CARBONIC ACID IN 5 C.C. OF HCl, SPECIFIC GRAVITY OF 1.125, FOR AN EVOLUTION OF 1 TO 100 C.C.

Ev.	Absorbed.	Evolved.	Absorbed.	Evolved.	Absorbed.	Evolved.	Absorbed.	Evolved.	Absorbed
1	1.85	21	4.95	41	5.24	61	5.50	81	5.78
2	2.00	22	4.96	42	5.25	62	5.51	82	5.79
3	2.16	23	4.97	43	5.26	63	5.52	83	5.80
4	2.31	24	4.98	44	5.27	64	5.54	84	5.82
5	2.47	25	5.00	45	5.28	65	5.55	85	5.83
6	2.62	26	5.03	46	5.30	66	5.57	86	5.85
7	2.78	27	5.04	47	5.31	67	5.58	87	5.86
8	2.93	28	5.06	48	5.32	68	5.59	88	5.87
9	3.09	29	5.07	49	5.34	69	5.61	89	5.89
10	3.24	30	5.09	50	5.35	70	5.62	90	5.90
11	3.40	31	5.10	51	5.36	71	5.64	91	5.92
12	3.55	32	5.11	52	5.37	72	5.65	92	5.93
13	3.71	33	5.13	53	5.38	73	5.66	93	5.94
14	3.86	34	5.14	54	5.40	74	5.68	94	5.96
15	4.02	35	5.16	55	5.41	75	5.69	95	5.97
16	4.17	36	5.17	56	5.43	76	5.71	96	5.99
17	4.33	37	5.18	57	5.44	77	5.72	97	6.00
18	4.48	38	5.20	58	5.45	78	5.73	98	6.01
19	4.64	39	5.21	59	5.47	79	5.75	99	6.03
20	4.79	40	5.23	60	5.48	80	5.76	100	6.04

TABLE OF THE ABSORPTION OF NITROGEN GAS IN 60 c.c. OF LIQUID (50 c.c. OF HYPOCHLORITE SOLUTION AND 10 c.c. OF WATER) HAVING A SPECIFIC GRAVITY OF 1.1 AND 50 c.c., EVOLVING 200 mm. OF NITROGEN.

Ev.	Absorbed.	Evolved.	Absorbed.	Evolved.	Absorbed.	Evolved.	Absorbed.	Evolved.	Absorbed
1	.06	21	.56	41	1.06	61	1.56	81	2.06
2	.08	22	.58	42	1.08	62	1.58	82	2.08
3	.11	23	.61	43	1.11	63	1.61	83	2.11
4	.13	24	.63	44	1.13	64	1.63	84	2.13
5	.16	25	.66	45	1.16	65	1.66	85	2.16
6	.18	26	.68	46	1.18	66	1.68	86	2.18
7	.21	27	.71	47	1.21	67	1.71	87	2.21
8	.23	28	.73	48	1.23	68	1.73	88	2.23
9	.26	29	.76	49	1.26	69	1.76	89	2.26
10	.28	30	.78	50	1.28	70	1.78	90	2.28
11	.31	31	.81	51	1.31	71	1.81	91	2.31
12	.33	32	.83	52	1.33	72	1.83	92	2.33
13	.36	33	.86	53	1.36	73	1.86	93	2.36
14	.38	34	.88	54	1.38	74	1.88	94	2.38
15	.41	35	.91	55	1.41	75	1.91	95	2.41
16	.43	36	.93	56	1.43	76	1.93	96	2.43
17	.46	37	.96	57	1.46	77	1.96	97	2.46
18	.48	38	.98	58	1.48	78	1.98	98	2.48
19	.51	39	1.01	59	1.51	79	2.01	99	2.51
20	.53	40	1.03	60	1.53	80	2.03	100	2.53

BEAUMÉ'S HYDROMETER.

T = 12.5°

T = 12.5°C =

A. For Liquids heavier than Water.

B°.	Sp. Grav.	B°.	Sp. Grav.	B°.	Sp. Grav.	B°.	Sp. Grav.
0	1.000	20	1.152	39	1.345	58	1.617
1	1.007	21	1.160	40	1.357	59	1.634
2	1.013	22	1.169	41	1.369	60	1.652
3	1.020	23	1.178	42	1.382	61	1.670
4	1.027	24	1.188	43	1.397	62	1.689
5	1.034	25	1.197	44	1.407	63	1.708
6	1.041	26	1.206	45	1.421	64	1.727
7	1.048	27	1.216	46	1.434	65	1.747
8	1.056	28	1.226	47	1.448	66	1.767
9	1.063	29	1.236	48	1.462	67	1.788
10	1.070	30	1.246	49	1.476	68	1.809
11	1.078	31	1.256	50	1.490	69	1.831
12	1.086	32	1.267	51	1.505	70	1.854
13	1.094	33	1.277	52	1.520	71	1.877
14	1.101	34	1.288	53	1.535	72	1.900
15	1.109	35	1.299	54	1.551	73	1.924
16	1.118	36	1.310	55	1.567	74	1.949
17	1.126	37	1.322	56	1.583	75	1.974
18	1.134	38	1.333	57	1.600	76	2.000
19	1.143						

B. For Liquids lighter than Water.

B°.	Sp. Grav.	B°.	Sp.Grav.	B°.	Sp Grav.	B°.	Sp.Grav.	B°.	Sp.Grav.
10	1.000	24	0.913	38	0.839	52	0.777	65	0.729
11	0.993	25	0.907	39	0.834	53	0.773	66	0.726
12	0.986	26	0.901	40	0.830	54	0.768	67	0.722
13	0.980	27	0.896	41	0.825	55	0.764	68	0.718
14	0.973	28	0.890	42	0.820	56	0.760	69	0.715
15	0.967	29	0.885	43	0.816	57	0.757	70	0.711
16	0.960	30	0.880	44	0.811	58	0.753	71	0.708
17	0.954	31	8.874	45	0.807	59	0.749	72	0.704
18	0.948	32	0.869	46	0.802	60	0.745	73	0.701
19	0.942	33	0.864	47	0.798	61	0.744	74	0.698
20	0.936	34	0.859	48	0.794	62	0.740	75	0.694
21	0.930	35	0.854	49	0.789	63	0.737	76	0.691
22	0.924	36	0.849	50	0.785	64	0.732	77	0.688
23	0.918	37	0.844	51	0.781				

REESE LIBRARY OF THE UNIVERSITY OF CALIFORNIA

ALCOHOL METRICAL TABLE OF TRALLES.

Alcohol in 100 measures of spirit.	Sp. Gr. 60° F.	Alcohol in 100 measures of spirit.	Sp. Gr. 60° F.	Alcohol in 100 measures of spirit.	Sp. Gr. 60° F.	Alcohol in 100 measures of spirit.	Sp. Gr. 60° F.
0	.9991	26	.9689	51	.9315	76	.8739
1	.9976	27	.9679	52	.9295	77	.8712
2	.9961	28	.9668	53	.9255	78	.8685
3	.9947	29	.9657	54	.9254	79	.8658
4	.9933	30	.9646	55	.9234	80	.8631
5	.9919	31	.9634	56	.9213	81	.8603
6	.9906	32	.9622	57	.9192	82	.8575
7	.9893	33	.9609	58	.9170	83	.8547
8	.9881	34	.9596	59	.9148	84	.8518
9	.9869	35	.9583	60	.9126	85	.8488
10	.9857	36	.9570	61	.9104	86	.8458
11	.9845	37	.9559	62	.9082	87	.8428
12	.9834	38	.9541	63	.9059	88	.8397
13	.9823	39	.9526	64	.9036	89	.8365
14	.9812	40	.9510	65	.9013	90	.8332
15	.9802	41	.9494	66	.8989	91	.8299
16	.9791	42	.9478	67	.8965	92	.8265
17	.9781	43	.9461	68	.8941	93	.8230
18	.9771	44	.9444	69	.8917	94	.8194
19	.9761	45	.9427	70	.8892	95	.8157
20	.9751	46	.9409	71	.8867	96	.8118
21	.9741	47	.9391	72	.8842	97	.8077
22	.9731	48	.9373	73	.8817	98	.8034
23	.9720	49	.9354	74	.8791	99	.7988
24	.9710	50	.9335	75	.8765	100	.7939
25	.9700						

TABLE SHOWING VALUE OF DEGREES OF BEAUMÉ IN THOSE OF TRALLES' ALCOHOLMETER.

Baumé.	Tralles.	Baumé.	Tralles.	Baumé.	Tralles.
10.12	.0	23	58.9	36	86.8
11	4.3	24	61.6	37	88.4
12	9.8	25	64.2	38	90
13	16.1	26	66.6	39	91.4
14	22.9	27	69.0	40	92.9
15	29.2	28	71.3	41	94.2
16	34.5	29	73.5	42	95.5
17	39.2	30	75.6	43	96.7
18	43.1	31	77.6	44	97.8
19	46.8	32	79.6	45	98.8
20	50.1	33	81.5	46	99.7
21	53.2	34	83.4	46.37	100
22	56.1	35	85.1		

DEGREES TWADDLES' HYDROMETER AND CORRESPONDING SPECIFIC GRAVITY.

Degrees.	Specific Gravity.	Degrees.	Specific Gravity.	Degrees.	Specific Gravity.
1	1.005	11	1.055	20	1.100
2	1.010	12	1.060	21	1.105
3	1.015	13	1.065	22	1.110
4	1.020	14	1.070	23	1.115
5	1.025	15	1.075	24	1.120
6	1.030	16	1.080	25	1.125
7	1.035	17	1.085	26	1.130
8	1.040	18	1.090	27	1.135
9	1.045	19	1.095	28	1.140
10	1.050				

TABLE OF THE PROPORTION BY WEIGHT OF ABSOLUTE OR REAL ALCOHOL IN 100 PARTS OF SPIRITS OF DIFFERENT SPECIFIC GRAVITIES. (FOWNES.)

Sp. Gr. at 60° (15°5C).	Per cent of real Alcohol.	Sp. Gr. at 60° (15°5C).	Per cent of real Alcohol.	Sp. Gr. at 60° (15°5C).	Per cent of real Alcohol.
0.9991	0.5	0.9511	34	0.8769	68
0.9981	1	0.9490	35	0.8745	69
0.9965	2	0.9470	36	0.8721	70
0.9947	3	0.9452	37	0.8696	71
0.9930	4	0.9434	38	0.8672	72
0.9914	5	0.9416	39	0.8649	73
0.9898	6	0.9396	40	0.8625	74
0.9884	7	0.9376	41	0.8603	75
0.9869	8	0.9356	42	0.8581	76
0.9855	9	0.9335	43	0.8557	77
0.9841	10	0.9314	44	0.8533	78
0.9828	11	0.9292	45	0.8508	79
0.9815	12	0.9270	46	0.8483	80
0.9802	13	0.9249	47	0.8459	81
0.9789	14	0.9228	48	0.8434	82
0.9778	15	0.9206	49	0.8408	83
0.9766	16	0.9184	50	0.8382	84
0.9753	17	0.9160	51	0.8357	85
0.9741	18	0.9135	52	0.8331	86
0.9728	19	0.9113	53	0.8305	87
0.9716	20	0.9090	54	0.8279	88
0.9704	21	0.9069	55	0.8254	89
0.9691	22	0.9047	56	0.8228	90
0.9678	23	0.9025	57	0.8199	91
0.9665	24	0.9001	58	0.8172	92
0.9652	25	0.8979	59	0.8145	93
0.9638	26	0.8956	60	0.8118	94
0.9623	27	0.8932	61	0.8089	95
0.9609	28	0.8908	62	0.8061	96
0.9593	29	0.8886	63	0.8031	97
0.9578	30	0.8863	64	0.8001	98
0.9560	31	0.8840	65	0.7969	99
0.9544	32	0.8816	66	0.7938	100
0.9528	33	0.8793	67		

REESE LIBRARY
OF THE
UNIVERSITY
OF CALIFORNIA

TABLE OF THE PROPORTION BY VOLUME OF ABSOLUTE OR REAL ALCOHOL IN 100 VOLUMES OF SPIRITS OF DIFFERENT SPECIFIC GRAVITIES (GAY-LUSSAC) AT 59° F. (15° C.).

Specfic Gravity.	Contain vol. of real Alcohol.	Specfic Gravity.	Contain vol. of real Alcohol.	Specific Gravity.	Contain vol. of real Alcohol.
1.0000	0	0.9608	34	0.8956	68
0.9985	1	0.9594	35	0.8932	69
0.9970	2	0.9581	36	0.8907	70
0.9956	3	0.9567	37	0.8882	71
0.9942	4	0.9553	38	0.8857	72
0.9929	5	0.9538	39	0.8831	73
0.9916	6	0.9523	40	0.8805	74
0.9903	7	0.9507	41	0.8779	75
0.9891	8	0.9491	42	0.8753	76
0.9878	9	0.9474	43	0.8726	77
0.9867	10	0.9457	44	0.8699	78
0.9855	11	0.9440	45	0.8672	79
0.9844	12	0.9422	46	0.8645	80
0.9833	13	0.9404	47	0.8617	81
0.9822	14	0.9386	48	0.8589	82
0.9812	15	0.9367	49	0.8560	83
0.9802	16	0.9348	50	0.8531	84
0.9792	17	0.9329	51	0.8502	85
0.9782	18	0.9309	52	0.8472	86
0.9773	19	0.9289	53	0.8442	87
0.9763	20	0.9269	54	0.8411	88
0.9753	21	0.9248	55	0.8379	89
0.9742	22	0.9227	56	0 8346	90
0.9732	23	0.9206	57	0.8312	91
0.9721	24	0.9185	58	0.8278	92
0.9711	25	0.9163	59	0.8242	93
0.9700	26	0.9141	60	0.8206	94
0.9690	27	0.9119	61	0.8168	95
0.9679	28	0.9096	62	0.8128	96
0.9668	29	0.9073	63	0.8086	97
0.9657	30	0.9050	64	0.8042	98
0.9645	31	0.9027	65	0.8006	99
0.9633	32	0.9004	66	0.7947	100
0.9621	33	0.8980	67		

FACTORS FOR DETERMINING THE QUANTITY OF PURE SUGAR BY THE SACCHAROMETER (VENTZKE).

Table of factors, corresponding to degrees Balling, to be multiplied by the indication of the saccharometer.

Deg. Balling.	Factor.	Deg. Balling.	Factor.	Deg. Balling.	Factor.	Deg. Balling.	Factor.
5	5.107	7.6	3.328	10.1	2.478	12.6	1.966
5.1	5.013	7.7	3.284	10.2	2.453	12.7	1.950
5.2	4.920	7.8	3.240	10.3	2.428	12.8	1.934
5.3	4.826	7.9	3.197	10.4	2.403	12.9	1.918
5.4	4.733	8	3.154	10.5	2.378	13	1.902
5.5	4.639	8.1	3.116	10.6	2.356	13.1	1.887
5.6	4.559	8.2	3.078	10.7	2.334	13.2	1.873
5.7	4.479	8.3	3.039	10.8	2.311	13.3	1.858
5.8	4.399	8.4	3.001	10.9	2.289	13.4	1.844
5.9	4.319	8.5	2.963	11	2.267	13.5	1.829
6	4.239	8.6	2.929	11.1	2.246	13.6	1.815
6.1	4.171	8.7	2.895	11.2	2.225	13.7	1.801
6.2	4.103	8.8	2.860	11.3	2.204	13.8	1.787
6.3	4.035	8.9	2.826	11.4	2.184	13.9	1.773
6.4	3.968	9	2.792	11.5	2.163	14	1.759
6.5	3.900	9.1	2.762	11.6	2.144	14.1	1.746
6.6	3.844	9.2	2.731	11.7	2.125	14.2	1.733
6.7	3.787	9.3	2.700	11.8	2.107	14.3	1.721
6.8	3.730	9.4	2.670	11.9	2.088	14.4	1.708
6.9	3.674	9.5	2.640	12	2.069	14.5	1.695
7	3.618	9.6	2.612	12.1	2.052	14.6	1.683
7.1	3.568	9.7	2.585	12.2	2.034	14.7	1.671
7.2	3.519	9.8	2.558	12.3	2.016	14.8	1.659
7.3	3.470	9.9	2.530	12.4	2.000	14.9	1.648
7.4	3.420	10	2.503	12.5	1.982	15	1.636
7.5	3.371						

TABLE FOR THE CORRECTION OF TEMPERATURES.

Difference between the temperatures observed and 17½° Cent.	Quantity to be added or subtracted from degrees Balling.	Difference between the temperatures observed and 17½° Cent.	Quantity to be added or subtracted from degrees Balling.	Difference between the temperatures observed and 17½° Cent.	Quantity to be added or subtracted from degrees Balling.
1	0.054	6	.327	11	.600
2	0.109	7	.381	12	.654
3	.163	8	.436	13	.708
4	.218	9	.490	14	.762
5	.272	10	.545	15	.817

TABLE OF FACTORS, CORRESPONDING TO DEGREES BALLING, TO BE MULTIPLIED BY THE INDICATION OF THE SACCHAROMETER (DUBOSCQ).

Deg. Balling.	Factor.	Deg. Balling.	Factor.	Deg. Balling.	Factor.	Deg. Balling.	Factor.
5	3.206	7.6	2.088	10.1	1.555	12.6	1.234
5.1	3.151	7.7	2.061	10.2	1.540	12.7	1.224
5.2	3.097	7.8	2.034	10.3	1.524	12.8	1.214
5.3	3.042	7.9	2.007	10.4	1.508	12.9	1.204
5.4	2.988	8	1.980	10.5	1.493	13	1.194
5.5	2.933	8.1	1.955	10.6	1.479	13.1	1.185
5.6	2.879	8.2	1.931	10.7	1.465	13.2	1.176
5.7	2.824	8.3	1.906	10.8	1.451	13.3	1.166
5.8	2.770	8.4	1.882	10.9	1.437	13.4	1.157
5.9	2.715	8.5	1.860	11	1.423	13.5	1.148
6	2.661	8.6	1.839	11.1	1.410	13.6	1.139
6.1	2.622	8.7	1.817	11.2	1.397	13.7	1.130
6.2	2.583	8.8	1.796	11.3	1.384	13.8	1.122
6.3	2.544	8.9	1.774	11.4	1.371	13.9	1.113
6.4	2.505	9	1.753	11.5	1.358	14	1.104
6.5	2.466	9.1	1.734	11.6	1.346	14.1	1.096
6.6	2.427	9.2	1.714	11.7	1.334	14.2	1.088
6.7	2.388	9.3	1.695	11.8	1.323	14.3	1.080
6.8	2.349	9.4	1.676	11.9	1.311	14.4	1.072
6.9	2.310	9.5	1.657	12	1.299	14.5	1.064
7	2.271	9.6	1.640	12.1	1.288	14.6	1.056
7.1	2.240	9.7	1.622	12.2	1.277	14.7	1.049
7.2	2.207	9.8	1.605	12.3	1.266	14.8	1.043
7.3	2.176	9.9	1.588	12.4	1.255	14.9	1.034
7.4	2.147	10	1.571	12.5	1.244	15	1.027
7.5	2.116						

PERCENTAGES OF SULPHURIC ACID (H_2SO_4) AND SO_3 IN AQUEOUS ACID OF VARYING GRAVITY.

(Bineau, Otto. Temp. = 15°.)

Spec. Gravity.	Per Cent H_2SO_4.	Per Cent SO_3.	Spec. Gravity.	Per Cent H_2SO_4.	Per Cent SO_3.	Spec. Gravity.	Per Cent H_2SO_4.	Per Cent SO_3.
1.8426	100	81.63	1.568	66	53.87	1.239	32	26.12
1.8420	99	80.81	1.557	65	53.05	1.231	31	25.30
1.8406	98	80	1.545	64	52.24	1.223	30	24.49
1.8400	97	79.18	1.534	63	51.42	1.215	29	23.67
1.8384	96	78.36	1.523	62	50.61	1.2066	28	22.85
1.8376	95	77.55	1.512	61	49.79	1.198	27	22.03
1.8356	94	76.73	1.501	60	48.98	1.196	26	21.22
1.834	93	75.91	1.490	59	48.16	1.182	25	20.40
1.831	92	75.10	1.480	58	47.34	1.174	24	19.58
1.827	91	74.28	1.469	57	46.53	1.167	23	18.77
1.822	90	73.47	1.4586	56	45.71	1.159	22	17.95
1.816	89	72.65	1.448	55	44.89	1.1516	21	17.14
1.809	88	71.83	1.438	54	44.07	1.144	20	16.32
1.802	87	71.02	1.428	53	43.26	1.136	19	15.51
1.794	86	70.10	1.418	52	42.45	1.129	18	14.69
1.786	85	69.38	1.408	51	41.63	1.121	17	13.87
1.777	84	68.57	1.398	50	40.81	1.1136	16	13.06
1.767	83	67.75	1.3886	49	40	1.106	15	12.24
1.756	82	66.94	1.379	48	39.18	1.098	14	11.42
1.745	81	66.12	1.370	47	38.36	1.091	13	10.61
1.734	80	65.30	1.361	46	37.55	1.083	12	9.79
1.722	79	64.48	1.351	45	36.73	1.0756	11	8.98
1.700	78	63.67	1.342	44	35.82	1.068	10	8.16
1.698	77	62.85	1.333	43	35.10	1.061	9	7.34
1.686	76	62.04	1.324	42	34.28	1.0536	8	6.53
1.675	75	61.22	1.315	41	33.47	1.0464	7	5.71
1.663	74	60.40	1.306	40	32.65	1.039	6	4.89
1.651	73	59.59	1.2976	39	31.83	1.032	5	4.08
1.639	72	58.77	1.289	38	31.02	1.0256	4	3.26
1.627	71	57.95	1.281	37	30.20	1.019	3	2.445
1.615	70	57.14	1.272	36	29.38	1.013	2	1.63
1.604	69	56.32	1.264	35	28.57	1.0064	1	0.816
1.592	68	55.59	1.256	34	27.75			
1.580	67	54.69	1.2476	33	26.94			

PERCENTAGES OF REAL HYDROCHLORIC ACID (HCl) AND Cl IN AQUEOUS ACID OF VARYING GRAVITY.

(Ure. Temp. 15°.)

Spec. Gravity.	Per Cent HCl.	Per Cent Cl.	Spec. Gravity.	Per Cent HCl.	Per Cent Cl.	Spec. Gravity.	Per Cent HCl.	Per Cent Cl.
1.2000	40.777	39.675	1.1328	26.913	26.186	1.0637	13.049	12.697
1.1982	40.369	39.278	1.1308	26.505	25.789	1.0617	12.641	12.300
1.1964	39.961	38.882	1.1287	26.098	25.392	1.0597	12.233	11.903
1.1946	39.554	38.485	1.1267	25.690	24.996	1.0577	11.825	11.506
1.1928	39.146	38.089	1.1247	25.282	24.599	1.0557	11.418	11.109
1.1910	38.738	37.692	1.1226	24.874	24.202	1.0537	11.010	10.712
1.1893	38.330	37.296	1.1206	24.466	23.805	1.0517	10.602	10.316
1.1875	37.923	36.900	1.1185	24.058	23.408	1.0497	10.194	9.919
1.1857	37.516	36.503	1.1164	23.650	23.012	1.0477	9.786	9.522
1.1846	37.108	36.107	1.1143	23.242	22.615	1.0457	9.379	9.126
1.1822	36.700	35.707	1.1123	22.834	22.218	1.0437	8.971	8.729
1.1802	36.292	35.310	1.1102	22.426	21.822	1.0417	8.563	8.332
1.1782	35.884	34.913	1.1082	22.019	21.425	1.0397	8.155	7.935
1.1762	35.476	34.517	1.1061	21.611	21.028	1.0377	7.747	7.538
1.1741	35.068	34.121	1.1041	21.203	20.632	1.0357	7.340	7.141
1.1721	34.660	33.724	1.1020	20.796	20.235	1.0337	6.932	6.745
1.1701	34.252	33.328	1.1000	20.388	19.837	1.0318	6.524	6.348
1.1681	33.845	32.931	1.0980	19.980	19.440	1.0298	6.116	5.951
1.1661	33.437	32.535	1.0960	19.572	19.044	1.0279	5.709	5.554
1.1641	33.029	32.136	1.0939	19.165	18.647	1.0259	5.301	5.158
1.1620	32.621	31.746	1.0919	18.757	18.250	1.0239	4.893	4.762
1.1599	32.213	31.343	1.0899	18.349	17.854	1.0220	4.486	4.365
1.1578	31.805	30.946	1.0879	17.941	17.457	1.0200	4.078	3.968
1.1557	31.398	30.550	1.0859	17.534	17.060	1.0180	3.670	3.571
1.1537	30.990	30.153	1.0838	17.126	16.664	1.0160	3.262	3.174
1.1515	30.582	29.757	1.0818	16.718	16.267	1.0140	2.854	2.778
1.1494	30.174	29.361	1.0798	16.310	15.870	1.0120	2.447	2.381
1.1473	29.767	28.994	1.0778	15.902	15.474	1.0100	2.039	1 984
1.1452	29.359	28.567	1.0758	15.494	15.077	1.0080	1.631	1.588
1.1431	28.951	28.171	1.0738	15.087	14.680	1.0060	1.124	1.191
1.1410	28.544	27.772	1.0718	14.679	14.284	1.0040	0.816	0.795
1.1389	28.136	27.376	1.0697	14.271	13.887	1.0020	0.408	0.397
1.1369	27.728	26.979	1.0677	13.863	13.490			
1.1349	27.321	26.583	1.0657	13.456	13.049			

PERCENTAGES OF REAL NITRIC ACID (HNO_3) IN AQUEOUS ACID OF VARYING GRAVITY.

(Kolb, *Ann. Ch. Phys.* (4), 136.)

HNO_3.	Specific Gravity.		HNO_3.	Specific Gravity.	
Per Cent.	At 0°.	At 15°.	Per Cent.	At 0°.	At 15°.
100.00	1.559	1.530	58.88	1.387	1.366
99.84	1.559	1.530	58	1.382	1.363
99.72	1.558	1.530	57	1.376	1.358
99.52	1.557	1.529	56.10	1.371	1.353
97.89	1.551	1.523	55	1.365	1.346
97	1.548	1.520	54	1.359	1.341
96	1.544	1.516	53.81	1.358	1.339
95.27	1.542	1.514	53	1.353	1.335
94	1.537	1.509	52.33	1.349	1.331
93.01	1.533	1.506	50.99	1.341	1.323
92	1.529	1.503	49.97	1.334	1.317
91	1.526	1.499	49	1.328	1.312
90	1.522	1.495	48	1.321	1.304
89.56	1.521	1.494	47.18	1.315	1.298
88	1.514	1.488	46.64	1.312	1.295
87.45	1.513	1.486	45	1.300	1.284
86.17	1.507	1.482	43.53	1.291	1.274
85	1.503	1.478	42	1.280	1.264
84	1.499	1.474	41	1.274	1.257
83	1.495	1.470	40	1.267	1.251
82	1.492	1.467	39	1.260	1.244
80.96	1.488	1.463	37.95	1.253	1.237
80	1.484	1.460	36	1.240	1.225
79	1.481	1.456	35	1.234	1.218
77.66	1.476	1.451	33.86	1.226	1.211
76	1.469	1.445	32	1.214	1.198
75	1.465	1.442	31	1.207	1.192
74.01	1.462	1.438	30	1.200	1.185
73	1.457	1.435	29	1.194	1.179
72.39	1.455	1.432	28	1.187	1.172
71.24	1.450	1.429	27	1.180	1.166
69.69	1.444	1.423	25.71	1.171	1.157
69.20	1.441	1.419	23	1.153	1.138
68	1.435	1.414	20	1.132	1.120
67	1.430	1.410	17.47	1.115	1.105
66	1.425	1.405	15	1.099	1.089
65.07	1.420	1.400	13	1.085	1.077
64	1.415	1.395	11.41	1.075	1.067
63.59	1.413	1.393	7.22	1.050	1.045
62	1.404	1.386	4	1.026	1.022
61.21	1.400	1.381	2	1.013	1.010
60	1.393	1.374	0	1	0.999
59.59	1.391	1.372			

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF PHOSPHORIC ACID AND OXIDE AT 15°.

Specific Gravity.	Per Ct. H_3PO_4.	Per Ct. P_2O_5.	Specific Gravity.	Per Ct. H_3PO_4.	Per Ct. P_2O_5.	Specific Gravity	Per Ct. H_3PO_4.	Per Ct. P_2O_5.
1.0054	1	.726	1.1262	21	15.246	1.2731	41	29.766
1.0109	2	1.452	1.1329	22	15.972	1.2812	42	30.492
1.0164	3	2.178	1.1397	23	16.698	1.2894	43	31.218
1.0220	4	2.904	1.1465	24	17.424	1.2976	44	31.944
1.0276	5	3.630	1.1534	25	18.150	1.3059	45	32.670
1.0333	6	4.356	1.1604	26	18.876	1.3143	46	33.496
1.0390	7	5.082	1.1674	27	19.602	1.3227	47	34.222
1.0449	8	5.808	1.1745	28	20.328	1.3313	48	34.948
1.0508	9	6.534	1.1817	29	21.054	1.3399	49	35.674
1.0567	10	7.26	1.1889	30	21.780	1.3486	50	36.400
1.0627	11	7.986	1.1962	31	22.506	1.3573	51	37.126
1.0688	12	8.712	1.2036	32	23.232	1.3661	52	37.852
1 0749	13	9.438	1.2111	33	23.958	1.3750	53	38.578
1.0811	14	10.164	1.2186	34	24.664	1.3840	54	39.304
1.0874	15	10.890	1.2262	35	25.410	1.3931	55	40.030
1.0937	16	11.616	1.2338	36	26.136	1.4022	56	40.756
1.1001	17	12.342	1.2415	37	26.862	1.4114	57	41.482
1.1065	18	13.068	1.2493	38	27.588	1.4207	58	42.208
1.1130	19	13.794	1.2572	39	28.314	1.4301	59	42.934
1.1196	20	14.520	1.2651	40	29.040	1.4395	60	43.660

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF ARSENIC ACID AND OXIDE AT 15°. (KOPP.)

Spec. Grav.	Per Ct. H_3AsO_4.	Per Ct. As_2O_5.	Spec. Grav.	Per Ct. H_3AsO_4.	Per Ct. As_2O_5.	Spec. Grav.	Per Ct. H_3AsO_4.	Per Ct. As_2O_5.
1	0.	0.	1.45	50.40	40.55	1.90	76.30	61.85
1.05	7.71	6.25	1.50	53.70	43.55	1.95	78.30	63.50
1.10	14.60	11.85	1.55	57.10	46.30	2.00	80.20	65
1.15	24.04	17.05	1.60	60.40	49	2.05	82.50	66.85
1.20	26.90	21.80	1.65	63.50	51.50	2.10	84.07	68.10
1.25	32.20	26.15	1.70	66.40	53.80	2.15	86.40	70
1.30	37.20	30.15	1.75	69.10	56.00	2.20	87.90	71.25
1.35	41.70	33.85	1.80	71.60	58	2.25	89.50	72.55
1.40	46.04	37.30	1.85	74.07	60	2.30	91.10	73.85

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF ACETIC ACID AT 15°. (OUDEMANS.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
.9992	0	1.0363	26	1.0623	51	1.0747	76
1.0047	1	1.0375	27	1.0631	52	1.0748	77
1.0022	2	1.0388	28	1.0638	53	1.0748	78
1.0037	3	1.0400	29	1.0646	54	1.0748	79
1.0052	4	1.0412	30	1.0653	55	1.0748	80
1.0067	5	1.0424	31	1.0660	56	1.0747	81
1.0083	6	1.0436	32	1.0666	57	1.0746	82
1.0098	7	1.0447	33	1.0673	58	1.0744	83
1.0113	8	1.0459	34	1.0679	59	1.0742	84
1.0127	9	1.0470	35	1.0685	60	1.0739	85
1.0142	10	1.0481	36	1.0691	61	1.0736	86
1.0157	11	1.0492	37	1.0697	62	1.0731	87
1.0171	12	1.0502	38	1.0702	63	1.0726	88
1.0185	13	1.0513	39	1.0707	64	1.0720	89
1.0200	14	1.0523	40	1.0712	65	1.0713	90
1.0214	15	1.0533	41	1.0717	66	1.0705	91
1.0228	16	1.0543	42	1.0721	67	1.0696	92
1.0242	17	1.0552	43	1.0725	68	1.0686	93
1.0256	18	1.0562	44	1.0729	69	1.0674	94
1.0270	19	1.0571	45	1.0733	70	1.0660	95
1.0284	20	1.0580	46	1.0737	71	1.0644	96
1.0298	21	1.0589	47	1.0740	72	1.0625	97
1.0311	22	1.0598	48	1.0742	73	1.0604	98
1.0324	23	1.0607	49	1.0744	74	1.0580	99
1.0337	24	1.0615	50	1.0746	75	1.0553	100
1.0350	25						

This method cannot be relied on with solutions containing over 78 per cent.

SPECIFIC GRAVITY AND PER CENT OF CRYSTALLIZED TARTARIC ACID IN WATER AT 15°. (GERLACH.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0045	1	1.0761	16	1.1615	32	1.2441	46
1.009	2	1.0865	18	1.1726	34	1.2568	48
1.0179	4	1.0969	20	1.1840	36	1.2696	50
1.0273	6	1.1072	22	1.1959	38	1.2828	52
1.0371	8	1.1175	24	1.2078	40	1.2961	54
1.0469	10	1.1282	26	1.2198	42	1.3093	56
1.0565	12	1.1393	28	1.2317	44	1.3220	57.9
1.0661	14	1.1505	30				

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF OXALIC ACID AT 15°. (FRANZ.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0032	1	1.0160	5	1.0226	8	1.0289	11
1.0064	2	1.0182	6	1.0248	9	1.0309	12
1.0096	3	1.0204	7	1.0271	10	1.0320	12.6
1.0128	4						

SPECIFIC GRAVITY AND PER CENT OF CITRIC ACID CRYSTALLIZED IN WATER AT 15°. (GERLACH.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0074	2	1.0805	20	1.1612	38	1.2410	54
1.0149	4	1.0889	22	1.1709	40	1.2514	56
1.0227	6	1.0972	24	1.1814	42	1.2627	58
1.0309	8	1.1060	26	1.1899	44	1.2738	60
1.0392	10	1.1152	28	1.1998	46	1.2849	62
1.0470	12	1.1244	30	1.2103	48	1.2960	64
1.0549	14	1.1333	32	1.2204	50	1.3071	66
1.0632	16	1.1422	34	1.2307	52	1.3076	66.1
1.0718	18	1.1515	36				

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF FORMIC ACID AT 15°.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.025	10	1.105	40	1.161	70	1.201	90
1.053	20	1.124	50	1.180	80	1.223	100
1.080	30	1.142	60				

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF HYDROFLUO-SILICIC ACID AT 17°.5. (STOLBA.)

Specific Gravity.	Per Cent H_2SiFl_6.	Specific Gravity.	Per Cent H_2SiFl_6.	Specific Gravity.	Per Cent H_2SiFl_6.	Specific Gravity.	Per Cent H_2SiFl_6.
1.3162	34	1.2285	25.5	1.1466	17	1.0704	8.5
1.3109	33.5	1.2235	25	1.1419	16.5	1.0661	8
1.3065	33	1.2186	24.5	1.1373	16	1.0618	7.5
1.3003	32.5	1.2136	24	1.1327	15.5	1.0576	7
1.2951	32	1.2087	23.5	1.1281	15	1.0533	6.5
1.2898	31.5	1.2038	23	1.1236	14.5	1.0491	6
1.2846	31	1.1989	22.5	1.1190	14	1.0449	5.5
1.2794	30.5	1.1941	22	1.1145	13.5	1.0407	5
1.2742	30	1.1892	21.5	1·1100	13	1.0366	4.5
1.2691	29.5	1.1844	21	1.1055	12.5	1.0324	4
1.2659	29	1.1796	20.5	1.1011	12	1.0283	3.5
1.2588	28.5	1.1748	20	1.0966	11.5	1.0242	3
1.2537	28	1.1701	19.5	1.0922	11	1.0201	2.5
1.2486	27.5	1.1653	19	1.0878	10.5	1.0161	2
1.2436	27	1.1606	18.5	1.0834	10	1.0120	1.5
1.2385	26.5	1.1559	18	1.0791	9.5	1.0080	1
1.2335	26	1.1512	17.5	1.0747	9	1.0040	0.5

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF HYDROCYANIC ACID. (URE.)

Specific Gravity.	Per Ct. HCy.	Specific Gravity.	Per Ct. HCy.	Specific Gravity.	Per Ct. HCy.	Specific Gravity.	Per Ct. HCy.
.9570	16.0	.9900	5.8	.9952	3.2	.9973	2.1
.9768	10.6	.9914	5.3	.9958	3.0	.9974	2.0
.9815	9.1	.9923	5.0	.9964	2.7	.9975	1.77
.9840	8.0	.9930	4.6	.9967	2.5	.9978	1.68
.9870	7.3	.9940	4.0	.9970	2.3	.9979	1.60
.9890	6.4	.9945	3.6				

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF IODIC ACID AT 14°. (KAMMERER.)

Specific Gravity.	Per Ct. I_2O_5.	Specific Gravity.	Per Ct. I_2O_5.	Specific Gravity.	Per Ct. I_2O_5.	Specific Gravity.	Per Ct. I_2O_5.
1.0053	1	1.2093	20	1.5371	40	1.8689	55
1.0203	5	1.2773	25	1.6315	45	1.9954	60
1.0525	10	1.3484	30	1.7256	50	2.1209	65
1.1223	15	1.4428	35				

SPECIFIC GRAVITY AND PER CENT OF TANNIN SOLUTIONS AT 15°. (TRAMMER.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0040	1.0	1.0084	2.1	1.0124	3.1	1.0164	4.1
1.0044	1.1	1.0088	2.2	1.0128	3.2	1.0168	4.2
1.0048	1.2	1.0092	2.3	1.0132	3.3	1.0172	4.3
1.0052	1.3	1.0096	2.4	1.0136	3.4	1.0176	4.4
1.0056	1.4	1.0100	2.5	1.0140	3.5	1.0180	4.5
1.0060	1.5	1.0104	2.6	1.0144	3.6	1.0184	4.6
1.0064	1.6	1.0108	2.7	1.0148	3.7	1.0188	4.7
1.0068	1.7	1.0112	2.8	1.0152	3.8	1.0192	4.8
1.0072	1.8	1.0116	2.9	1.0156	3.9	1.0196	4.9
1.0076	1.9	1.0120	3.0	1.0160	4.0	1.0200	5.0
1.0080	2.0						

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF HYDROBROMIC ACID AT 15°. (WRIGHT.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.000	0	1.117	15	1.252	30	1.445	45
1.038	5	1.159	20	1.305	35	1.515	50
1.077	10	1.204	25	1.365	40		

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF HYDRIODIC ACID AT 15°. (WRIGHT.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.000	0	1.138	15	1.296	30	1.533	45
1.045	5	1.187	20	1.361	35	1.650	50
1.091	10	1.239	25	1.438	40	1.700	52

PERCENTAGE OF AMMONIA (NH_3) IN AQUEOUS SOLUTIONS OF THE GAS OF VARYING GRAVITY. (CARIUS.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
0.9991	0.2	0.9688	7.5	0.9470	13.4	0.9191	22
0.9983	0.4	0.9683	7.6	0.9463	13.6	0.9185	22.2
0.9975	0.6	0.9678	7.8	0.9456	13.8	0.9180	22.4
0.9667	0.8	0.9673	7.9	0.9449	14	0.9174	22.6
0.9959	1	0.9669	8	0.9441	14.2	0.9168	22.8
0.9950	1.2	0.9664	8.1	0.9434	14.4	0.9162	23
0.9941	1.4	0.9659	8.3	0.9427	14.6	0.9156	23.2
0.9932	1.6	0.9654	8.4	0.9420	14.8	0.9150	23.4
0.9924	1.8	0.9650	8.5	0.9414	15	0.9145	23.6
0.9915	2	0.9645	8.6	0.9407	15.2	0.9139	23.8
0.9907	2.2	0.9641	8.8	0.9400	15.4	0.9133	24
0.9899	2.4	0.9636	8.9	0.9393	15.6	0.9127	24.2
0.9890	2.6	0.9631	9.0	0.9386	15.8	0.9122	24.4
0.9882	2.8	0.9626	9.1	0.9380	16	0.9116	24.6
0.9873	3	0.9621	9.3	0.9373	16.2	0.9111	24.8
0.9863	3.2	0.9616	9.4	0.9366	16.4	0.9106	25
0.9855	3.4	0.9612	9.5	0.9360	16.6	0.9100	25.2
0.9847	3.6	0.9607	9.6	0.9353	16.8	0.9094	25.4
0.9839	3.8	0.9602	9.8	0.9347	17	0.9089	25.6
0.9831	4	0.9597	9.9	0.9340	17.2	0.9083	25.8
0.9823	4.2	0.9593	10	0.9333	17.4	0.9078	26
0.9815	4.4	0.9588	10.1	0.9327	17.6	0.9073	26.2
0.9807	4.6	0.9583	10.3	0.9321	17.8	0.9068	26.4
0.9799	4.8	0.9578	10.4	0.9314	18	0.9063	26.6
0.9783	5	0.9574	10.5	0.9308	18.2	0.9057	26.8
0.9778	5.1	0.9569	10.6	0.9302	18.4	0.9052	27
0.9773	5.3	0.9564	10.8	0.9296	18.6	0.9047	27.2
0.9768	5.4	0.9559	10.9	0.9289	18.8	0.9041	27.4
0.9764	5.5	0.9556	11	0.9283	19	0.9036	27.6
0.9759	5.6	0.9550	11.1	0.9277	19.2	0.9031	27.8
0.9754	5.8	0.9545	11.3	0.9271	19.4	0.9026	28
0.9749	5.9	0.9540	11.4	0.9264	19.6	0.9021	28.2
0.9745	6	0.9536	11.5	0.9257	19.8	0.9016	28.4
0.9735	6.3	0.9531	11.6	0.9251	20	0.9011	28.6
0.9730	6.4	0.9526	11.8	0.9245	20.2	0.9006	28.8
0.9726	6.5	0.9521	11.9	0.9239	20.4	0.9001	29
0.9721	6.6	0.9517	12	0.9233	20.6	0.8996	29.2
0.9716	6.8	0.9512	12.2	0.9227	20.8	0.8991	29.4
0.9711	6.9	0.9505	12.4	0.9221	21	0.8986	29.6
0.9707	7	0.9498	12.6	0.9215	21.2	0.8981	29.8
0.9702	7.1	0.9491	12.8	0.9209	21.4	0.8976	30
0.9697	7.3	0.9484	13	0.9203	21.6	0.8971	30.2
0.9692	7.4	0.9477	13.2	0.9197	21.8	0.8967	30.4

AMMONIA PERCENTAGE TABLE—*Continued.*

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
0.8962	30.6	0.8929	32	0.8898	33.4	0.8868	34.8
0.8957	30.8	0.8925	32.2	0.8894	33.6	0.8864	35
0.8953	31	0.8920	32.4	0.8889	33.8	0.8860	35.2
0.8948	31.2	0.8916	32.6	0.8885	34	0.8856	35.4
0.8943	31.4	0.8911	32.8	0.8881	34.2	0.8852	35.6
0.8938	31.6	0.8907	33	0.8877	34.4	0.8848	35.8
0.8934	31.8	0.8903	33.2	0.8872	34.6	0.8844	36

TABLE SHOWING SPECIFIC GRAVITY AND PER CENT OF SOLUTION OF SODIUM OXIDE AT 17°.5. (TÜNNERMANN.)

Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.
.302	1.0040	7.857	1.1137	15.714	1.2453	22.967	1.3273
.601	1.0081	8.462	1.1233	16.319	1.2515	23.572	1.3349
1.209	1.0163	9.066	1.1330	16.923	1.2578	24.176	1.3426
1.813	1.0246	9.670	1.1428	17.528	1.2642	24.780	1.3505
2.418	1.0330	10.275	1.1528	18.132	1.2708	25.385	1.3586
3.022	1.0414	11.879	1.1630	18.730	1.2775	25.989	1.3668
3.626	1.0500	11.484	1.1734	19.341	1.2843	26.594	1.3751
4.231	1.0587	12.088	1.1841	19.954	1.2912	27.200	1.3836
4.835	1.0675	12.692	1.1948	20.550	1.2982	27.802	1.3923
5.440	1.0764	13.297	1.2058	21.154	1.3053	28.407	1.4011
6.044	1.0855	13.901	1.2178	21.758	1.3125	29.011	1.4101
6.648	1.0948	14.505	1.2280	21.894	1.3143	29.616	1.4193
7.253	1.1042	15.110	1.2392	22.363	1.3198	20.220	1.4285

SPECIFIC GRAVITY AND PER CENT OF SALT SOLUTION AT 15°.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.00725	1	1.05851	8	1.11146	15	1.16755	22
1.01450	2	1.06593	9	1.11938	16	1.17580	23
1.02174	3	1.07335	10	1.12730	17	1.18404	24
1.02899	4	1.08097	11	1.13523	18	1.19228	25
1.03624	5	1.08859	12	1.14315	19	1.20098	26
1.04366	6	1.09622	13	1.15107	20	1.20433	26.395
1.05108	7	1.10384	14	1.15931	21		

TABLE SHOWING THE SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF POTASSIUM OXIDE AND HYDROXIDE AT 17°.5. (TÜNNERMANN.)

Per Ct. K_2O.	Per Ct. KOH.	Specific Gravity.	Per Ct. K_2O.	Per Ct. KOH.	Specific Gravity.	Per Ct. K_2O.	Per Ct. KOH.	Specific Gravity.
.5658	0.738	1.0050	16.408	19.542	1.1702	32.14	38.28	1.34
1.697	2.021	1.0153	17.540	20.890	1.1839	33.46	39.85	1.36
2.829	3.369	1.0260	18.671	22.237	1.1979	34.74	41.37	1.38
3.961	4.717	1.0369	19.803	23.585	1.2122	35.99	42.86	1.40
5.002	5.957	1.0478	20.935	24.933	1.2268	37.97	45.22	1.42
6.224	7.412	1.0589	21.500	25.606	1.2342	40.17	47.84	1.44
7.355	8.760	1.0703	22.632	26.954	1.2493	42.31	50.39	1.46
8.487	10.108	1.0819	23.764	28.303	1.2648	44.40	52.88	1.48
9.619	11 456	1.0938	24.895	29.650	1.2805	46.45	55.32	1.50
10.750	12.803	1.1059	26.027	30.998	1.2966	48.46	57.71	1.52
11.882	14.151	1.1182	27.158	32.345	1.3131	50.09	59.65	1.54
13.013	15.498	1.1308	28.29	33.693	1.3300	51.58	61.43	1.56
14.145	16.846	1.1437	29.34	34.94	1.30	53.06	63.19	1.58
15.277	18.195	1.1568	30.74	36.91	1.32			

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF POTASSIUM CHLORIDE AT 15°.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.00650	1	1.05248	8	1.09345	14	1.13608	20
1.01300	2	1.05914	9	1.10036	15	1.14348	21
1.01950	3	1.06580	10	1.10750	16	1.15088	22
1.02600	4	1.07271	11	1.11465	17	1.15828	23
1.03250	5	1.07962	12	1.12179	18	1.16568	24
1.03916	6	1.08652	13	1.12894	19	1.17234	24.9
1.04582	7						

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF CALCIUM CHLORIDE AT 18°.3. (SCHIFF.)

Specific Gravity.	Per Cent $CaCl_2$ $+6H_2O$	Per Cent $CaCl_2$.	Specific Gravity.	Per Cent $CaCl_2$ $+6H_2O$	Per Cent $CaCl_2$.	Specific Gravity.	Per Cent $CaCl_2$ $+6H_2O$	Per Cent $CaCl_2$.
1.0039	1	0.507	1.1062	25	12.670	1.2162	48	24.327
1.0079	2	1.014	1.1107	26	13.177	1.2212	49	24.834
1.0119	3	1.521	1.1153	27	13.684	1.2262	50	25.340
1.0159	4	2.028	1.1199	28	14.191	1.2312	51	25.847
1.0200	5	2.534	1.1246	29	14.698	1.2363	52	26.354
1.0241	6	3.041	1.1292	30	15.204	1.2414	53	26.861
1.0282	7	3.548	1.1339	31	15.711	1.2465	54	27.368
1.0323	8	4.055	1.1386	32	16.218	1.2516	55	27.874
1.0365	9	4.562	1.1433	33	16.725	1.2567	56	28.381
1.0407	10	5.068	1.1480	34	17.232	1.2618	57	28.888
1.0449	11	5.575	1.1527	35	17.738	1.2969	58	29.395
1.0491	12	6.082	1.1575	36	18.245	1.2721	59	29.902
1.0534	13	6.587	1.1622	37	18.752	1.2773	60	30.408
1.0577	14	7.096	1.1671	38	19.259	1.2825	61	30.915
1.0619	15	7.601	1.1719	39	19.766	1.2877	62	31.422
1.0663	16	8.107	1.1768	40	20.272	1.2929	63	31.929
1.0706	17	8.611	1.1816	41	20.779	1.2981	64	32.436
1.0750	18	9.121	1.1865	42	21.286	1.3034	65	32.942
1.0794	19	9.625	1.1914	43	21.793	1.3087	66	33.449
1.0838	20	10.136	1.1963	44	22.300	1.3140	67	33.956
1.0882	21	10.643	1.2012	45	22.806	1.3193	68	34.863
1.0927	22	11.150	1.2062	46	23.313	1.3246	69	34.970
1.0972	23	11.657	1.2112	47	23.820	1.3300	70	35.476
1.1017	24	12.164						

SPECIFIC GRAVITY AND PER CENT OF BARIUM CHLORIDE SOLUTION AT 21°.5. (SCHIFF.)

Specific Gravity.	Per Cent $BaCl$ $+2H_2O$	Per Cent $BaCl_2$.	Specific Gravity.	Per Cent $BaCl$ $+2H_2O$	Per Cent $BaCl_2$.	Specific Gravity.	Per Cent $BaCl$ $+2H_2O$	Per Cent $BaCl_2$.
1.0073	1	0.853	1.0861	11	9.379	1.1783	21	17.904
1.0147	2	1.705	1.0947	12	10.231	1.1884	22	18.756
1.0222	3	2.558	1.1034	13	11.084	1.1986	23	19.609
1.0298	4	3.410	1.1122	14	11.936	1.2090	24	20.461
1.0374	5	4.263	1.1211	15	12.789	1.2197	25	21.314
1.0452	6	5.115	1.1302	16	13.641	1.2304	26	22.166
1.0530	7	5.968	1.1394	17	14.494	1.2413	27	23.019
1.0610	8	6.821	1.1488	18	15.346	1.2523	28	23.871
1.0692	9	7.673	1.1584	19	16.199	1.2636	29	24.724
1.0776	10	8.526	1.1683	20	17.051	1.2750	30	25.577

SPECIFIC GRAVITY AND PER CENT OF MAGNESIUM CHLORIDE SOLUTION AT 24°. (SCHIFF.)

Specific Gravity.	Per Cent.		Specific Gravity.	Per Cent.		Specific Gravity.	Per Cent.	
	$MgCl_2+6H_2O$	$MgCl_2$.		$MgCl_2+6H_2O$	$MgCl_2$.		$MgCl_2+6H_2O$	$MgCl_2$.
1.0069	2	0.936	1.1062	30	14.040	1.2083	56	26.208
1.0138	4	1.872	1.1137	32	14.976	1.2167	58	27.144
1.0207	6	2.808	1.1212	34	15.912	1.2252	60	28.080
1.0276	8	3.744	1.1288	36	16.848	1.2338	62	29.016
1.0345	10	4.680	1.1364	38	17.784	1.2425	64	29.952
1.0415	12	5.616	1.1441	40	18.720	1.2513	66	30.888
1.0485	14	6.552	1.1519	42	19.656	1 2602	68	31.824
1.0556	16	7.488	1.1598	44	20.592	1.2692	70	32.760
1.0627	18	8.424	1.1677	46	21.528	1.2783	72	33.696
1.0698	20	9.360	1.1756	48	22.464	1.2875	74	34.632
1.0770	22	10.296	1.1836	50	23.400	1.2968	76	35.568
1.0842	24	11.232	1.1918	52	24.336	1.3063	78	36.504
1.0915	26	12.168	1.2000	54	25.272	1.3159	80	37.440
1.0988	28	13.104						

SPECIFIC GRAVITY AND PER CENT OF ALUMINIUM CHLORIDE SOLUTION AT 15°. (GERLACH.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.00721	1	1.08902	12	1.17953	23	1.27115	33
1.01443	2	1.09684	13	1.18815	24	1.28080	34
1.02164	3	1.10460	14	1.19676	25	1.29046	35
1.02885	4	1.11248	15	1.20584	26	1.30066	36
1.03603	5	1.12073	16	1.21493	27	1.31086	37
1.04353	6	1.12897	17	1.22406	28	1.32106	38
1.05099	7	1.13721	18	1.23310	29	1.33126	39
1.05845	8	1.14545	19	1.24219	30	1.34146	40
1.06591	9	1.15370	20	1.25184	31	1.35224	41
1.07337	10	1.16231	21	1.26149	32	1.35359	41.126
1.08120	11	1.17092	22				

SPECIFIC GRAVITY AND PER CENT OF AMMONIUM CHLORIDE SOLUTION AT 15°.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.00316	1	1.02481	8	1.04524	15	1.06479	22
1.00632	2	1.02781	9	1.04805	16	1.06754	23
1.00948	3	1.03081	10	1.05086	17	1.07029	24
1.01264	4	1.03370	11	1.05367	18	1.07304	25
1.01580	5	1.03658	12	1.05648	19	1.07575	26
1.01880	6	1.03947	13	1.05929	20	1.07658	26.297
1.02180	7	1.04325	14	1.06204	21		

SPECIFIC GRAVITY AND PER CENT OF COPPER CHLORIDE SOLUTION AT 17°.5. (FRANZ.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0182	2	1.1178	12	1.2501	22	1.3950	32
1.0364	4	1.1436	14	1.2779	24	1.4287	34
1.0548	6	1.1696	16	1.3058	26	1.4615	36
1.0734	8	1.1958	18	1.3338	28	1.4949	38
1.0920	10	1.2223	20	1.3618	30	1.5281	40

SPECIFIC GRAVITY AND PER CENT OF STANNIC CHLORIDE SOLUTION AT 15°. (GERLACH.)

Specific Gravity.	Per Cent $SnCl_4$ $+5H_2O$	Specific Gravity.	Per Cent $SnCl_4$ $+5H_2O$	Specific Gravity.	Per Cent $SnCl_4$ $+5H_2O$	Specific Gravity.	Per Cent $SnCl^4$ $+5H_2O$
1.012	2	1.165	26	1.366	50	1.641	74
1.024	4	1.180	28	1.386	52	1.669	76
1.036	6	1.195	30	1.406	54	1.698	78
1.048	8	1.210	32	1.426	56	1.727	80
1.059	10	1.2268	34	1.447	58	1.759	82
1.072	12	1.242	36	1.468	60	1.791	84
1.084	14	1.259	38	1.491	62	1.824	86
1.097	16	1.2755	40	1.514	64	1.859	88
1.110	18	1.293	42	1.538	66	1.893	90
1.1236	20	1.310	44	1.563	68	1.932	92
1.137	22	1.329	46	1.587	70	1.969	94
1.157	24	1.347	48	1.614	72	1.988	96

SPECIFIC GRAVITY AND PER CENT OF BARIUM NITRATE SOLUTION AT 19°.5. (KREMERS.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.017	2	1.037	10	1.049	6	1.181	20
1.037	4		$Sr(NO_3)_2$	1.068	8	1.292	30
1.050	6	1.017	2	1.085	10	1.422	40
1.069	8	1.034	4	1.131	15		

SPECIFIC GRAVITY AND PER CENT OF CALCIUM NITRATE SOLUTION AT 17°.5. (FRANZ.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0078	10	1.2724	30	1.5148	50
1.1736	20	1.3846	40	1.6660	60

SPECIFIC GRAVITY AND PER CENT OF PLATINUM-CHLORIDE SOLUTION. (PRECHT.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.009	1	1.141	14	1.315	27	1.523	39
1.018	2	1.153	15	1.330	28	1.546	40
1.027	3	1.165	16	1.346	29	1.568	41
1.036	4	1.176	17	1.362	30	1.591	42
1.046	5	1.188	18	1.387	31	1.615	43
1.056	6	1.201	19	1.395	32	1.641	44
1.066	7	1.214	20	1.413	33	1.666	45
1.076	8	1.227	21	1.431	34	1.688	46
1.086	9	1.242	22	1.450	35	1.712	47
1.097	10	1.256	23	1.469	36	1.736	48
1.108	11	1.270	24	1.488	37	1.760	49
1.119	12	1.285	25	1.500	38	1.785	50
1.130	13	1.300	26				

SPECIFIC GRAVITY AND PER CENT OF STANNOUS-CHLORIDE SOLUTION AT 15°. (GERLACH.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.013	2	1.161	22	1.352	42	1.582	60
1.026	4	1.177	24	1.374	44	1.613	62
1.040	6	1.194	26	1.397	46	1.644	64
1.054	8	1.212	28	1.421	48	1.677	66
1.068	10	1.230	30	1.445	50	1.711	68
1.083	12	1.249	32	1.471	52	1.745	70
1.097	14	1.268	34	1.497	54	1.783	72
1.113	16	1.288	36	1.525	56	1.821	74
1.128	18	1.309	38	1.554	58	1.840	75
1.144	20	1.330	40				

SPECIFIC GRAVITY AND PER CENT OF SODIUM-NITRATE SOLUTION AT 25°.2.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0065	1	1.0962	14	1.1987	27	1.3055	39
1.0131	2	1.1035	15	1.2070	28	1.3155	40
1.0197	3	1.1109	16	1.2154	29	1.3255	41
1.0264	4	1.1184	17	1.2239	30	1.3355	42
1.0332	5	1.1260	18	1.2325	31	1.3456	43
1.0399	6	1.1338	19	1.2412	32	1.3557	44
1.0468	7	1.1418	20	1.2500	33	1.3659	45
1.0537	8	1.1498	21	1.2589	34	1.3761	46
1.0606	9	1.1578	22	1.2679	35	1.3864	47
1.0676	10	1.1659	23	1.2770	36	1.3968	48
1.0746	11	1.1740	24	1.2863	37	1.4074	49
1.0817	12	1.1822	25	1.2958	38	1.4180	50
1.0889	13	1.1904	26				

SPECIFIC GRAVITY AND PER CENT OF SODIUM-SULPHATE SOLUTION AT 19°.

Specific Gravity.	Per Cent.		Specific Gravity.	Per Cent.	
	$Na_2SO_4 + 10H_2O$.	Na_2SO_4.		$Na_2SO_4 + 10H_2O$.	Na_2SO_4.
1.0040	1	.441	1.0642	16	7.056
1.0079	2	.881	1.0683	17	7.497
1.0118	3	1.323	1.0725	18	7.938
1.0158	4	1.764	1.0766	19	8.379
1.0198	5	2.205	1.0807	20	8.820
1.0238	6	2.646	1.0849	21	9.261
1.0278	7	3.087	1.0890	22	9.702
1.0318	8	3.528	1.0931	23	10.143
1.0358	9	3.969	1.0973	24	10.584
1.0398	10	4.410	1.1015	25	11.025
1.0439	11	4.851	1.1057	26	11.466
1.0479	12	5.292	1.1100	27	11.907
1.0520	13	5.373	1.1142	28	12.348
1.0560	14	6.174	1.1184	29	12.789
1.0601	15	6.615	1.1226	30	13.230

SPECIFIC GRAVITY AND PER CENT OF AMMONIUM-SULPHATE SOLUTION AT 19°. (SCHIFF.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0057	1	1.0805	14	1.1554	27	1.2228	39
1.0115	2	1.0862	15	1.1612	28	1.2284	40
1.0172	3	1.0920	16	1.1670	29	1.2343	41
1.0230	4	1.0977	17	1.1724	30	1.2402	42
1.0287	5	1.1035	18	1.1780	31	1.2462	43
1.0345	6	1.1092	19	1.1836	32	1.2522	44
1.0403	7	1.1149	20	1.1892	33	1.2583	45
1.0460	8	1.1207	21	1.1948	34	1.2644	46
1.0518	9	1.1265	22	1.2004	35	1.2705	47
1.0575	10	1.1323	23	1.2060	36	1.2766	48
1.0632	11	1.1381	24	1.2116	37	1.2828	49
1.0690	12	1.1439	25	1.2172	38	1.2890	50
1.0747	13	1.1496	26				

SPECIFIC GRAVITY AND PER CENT OF VARIOUS SOLUTIONS AT 17°.5. (FRANZ.)

Silver Nitrate.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.041	5	1.080	10	1.160	20
1.050	6	1.100	12	1.206	25
1.058	7	1.125	15	1.251	30
1.064	8	1.150	18		

Copper Nitrate.

1.0942	10	1.3299	30	1.5404	44
1.2037	20	1.4724	40		

Lead Nitrate.

1.0869	10	1.3140	30	1.3996	40
1.1902	20				

Cobalt Nitrate.

1.0906	10	1.3190	30	1.4662	40
1.1936	20				

Cadmium Nitrate.

1.0978	10	1.3566	30	1.7608	50
1.2134	20	1.5372	40		

Zinc Nitrate.

1.0968	10	1.3268	30	1.5984	50
1.2024	20	1.4572	40		

Iron Nitrate.

1.0770	10	1.2622	30	1.4972	50
1.1612	20	1.3746	40	1.6572	60

SPECIFIC GRAVITY AND PER CENT OF POTASSIUM NITRATE SOLUTION AT 21°.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0058	1	1.0425	7	1.0819	13	1.1242	19
1.0118	2	1.0490	8	1.0887	14	1.1316	20
1.0178	3	1.0555	9	1.0956	15	1.1390	21
1.0239	4	1.0621	10	1.1026	16	1.1464	22
1.0300	5	1.0686	11	1.1097	17	1.1539	23
1.0363	6	1.0752	12	1.1160	18	1.1613	24

SPECIFIC GRAVITY AND PER CENT OF POTASSIUM FERRO CYANIDE SOLUTION AT 15°.

Specific Gravity.	Per Cent.		Specific Gravity.	Per Cent.	
	$K_4Fe(Cn)_6 + 3H_2O$.	$K_4Fe(Cn)_6$.		$K_4Fe(Cn)_6 + 3H_2O$.	$K_4Fe(Cn)_6$.
1.0058	1	0.872	1.0669	11	9.592
1.0116	2	1.744	1.0734	12	10.464
1.0175	3	2.616	1.0800	13	11.336
1.0234	4	3.488	1.0866	14	12.208
1.0295	5	4.360	1.0932	15	13.080
1.0356	6	5.232	1.0999	16	13.952
1.0417	7	6.104	1.1067	17	14.824
1.0479	8	6.976	1.1136	18	15.696
1.0542	9	7.848	1.1205	19	16.568
1.0605	10	8.720	1.1275	20	17.440

SPECIFIC GRAVITY AND PER CENT OF MAGNESIUM SULPHATE SOLUTION AT 15°. (GERLACH.)

Specific Gravity.	Per Cent.		Specific Gravity.	Per Cent.	
	$MgSO_4$.	$MgSO_4 + 7H_2O$.		$MgSO_4$.	$MgSO_4 + 7H_2O$.
1.02062	2	4.097	1.17420	16	32.780
1.04123	4	8.195	1.19816	18	36.877
1.06229	6	12.292	1.22216	20	40.975
1.08379	8	16.390	1.24718	22	45.072
1.10529	10	20.487	1.27225	24	49.170
1.12806	12	24.585	1.28802	25.25	51.726
1.15083	14	28.682			

SPECIFIC GRAVITY AND PER CENT OF VARIOUS SOLUTIONS AT 15°. (GERLACH.)

ZINC SULPHATE.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0288	5	1.1574	25	1.2709	40
1.0593	10	1.1932	30	1.310	45
1.0905	15	1.231	35	1.2522	50
1.1236	20				

ALUMINIUM POTASSIUM SULPHATE.

1.0065	1	1.0166	3	1.0269	5
1.0110	2	1.0218	4	1.0320	6

POTASSIUM SULPHATE.

1.00820	1	1.04105	5	1.06644	8
1.01635	2	1.04947	6	1.07499	9
1.02450	3	1.05790	7	1.08305	9.92
1.03277	4				

SODIUM SULPHATE.

1.01911	1	1.04576	5	1.08325	9
1.01822	2	1.05500	6	1.09275	10
1.02736	3	1.06437	7	1.10246	11
1.03650	4	1.07375	8	1.11170	11.952

AMMONIUM ALUMINIUM SULPHATE.

1.0060	1	1.0156	3	1.0255	5
1.0109	2	1.0200	4	1.0305	6

POTASSIUM CHROMIUM SULPHATE.

1.0174	5	1.1274	30	1.4566	60
1.0342	10	1.1896	40	1.6362	70
1.0746	20	1.2894	50		

SPECIFIC GRAVITY AND CONTENTS OF A SOLUTION OF LEAD ACETATE AT 20°. (Salomon.)

Gram'es in 100 C. C.	Specific Gravity.	Gram'es in 100 C. C.	Specific Gravity.	Gram'es in 100 C. C.	Specific Gravity.	Gram'es in 100 C. C.	Specific Gravity.
1	1.0062	14	1.0870	27	1.1663	39	1.2380
2	1.0124	15	1.0932	28	1.1723	40	1.2440
3	1.0186	16	1.0994	29	1.1783	41	1.2499
4	1.0248	17	1.1056	30	1.1844	42	1.2558
5	1.0311	18	1.1118	31	1.1903	43	1.2617
6	1.0373	19	1.1180	32	1.1963	44	1.2676
7	1.0435	20	1.1242	33	1.2022	45	1.2735
8	1.0497	21	1.1302	34	1.2082	46	1.2794
9	1.0559	22	1.1362	35	1.2142	47	1.2853
10	1.0622	23	1.1422	36	1.2201	48	1.2912
11	1.0684	24	1.1482	37	1.2261	49	1.2971
12	1.0746	25	1.1543	38	1.2320	50	1.3030
13	1.0808	26	1.1603				

SPECIFIC GRAVITY AND PER CENT OF POTASSIUM CHROMATE SOLUTION AT 19°.5. (Schiff.)

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0080	1	1.0925	11	1.1864	21	1.2921	31
1.0161	2	1.1014	12	1.1964	22	1.3035	32
1.0243	3	1.1104	13	1.2066	23	1.3151	33
1.0325	4	1.1195	14	1.2169	24	1.3268	34
1.0408	5	1.1287	15	1.2274	25	1.3386	35
1.0492	6	1.1380	16	1.2379	26	1.3505	36
1.0576	7	1.1474	17	1.2485	27	1.3625	37
1.0663	8	1.1570	18	1.2592	28	1.3746	38
1.0750	9	1.1667	19	1.2700	29	1.3868	39
1.0837	10	1.1765	20	1.2808	30	1.3991	40

SPECIFIC GRAVITY AND PER CENT OF SOLUTIONS OF POTASSIUM FERRI-CYANIDE AT 15°.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0051	1	1.0315	6	1.0653	12	1.1266	22
1.0103	2	1.0370	7	1.0771	14	1.1396	24
1.0155	3	1.0426	8	1.0891	16	1.1529	26
1.0208	4	1.0482	9	1.1014	18	1.1664	28
1.0261	5	1.0538	10	1.1139	20	1.1802	30

SPECIFIC GRAVITY AND PER CENT OF SODIUM-HYPOSULPHITE SOLUTION AT 19°.

Specific Gravity.	Per Cent.		Specific Gravity.	Per Cent.	
	$Na_2S_2O_3 + 5H_2O$.	$Na_2S_2O_3$.		$Na_2S_2O_3 + 5H_2O$.	$Na_2S_2O_2$.
1.0052	1	0.637	1.1440	26	16.564
1.0105	2	1.274	1.1499	27	17.021
1.0158	3	1.911	1.1558	28	17.838
1.0211	4	2.584	1.1617	29	18.475
1.0264	5	3.185	1.1676	30	19.113
1.0317	6	3.822	1.1738	31	19.750
1.0370	7	4.459	1.1800	32	20.387
1.0423	8	5.096	1.1862	33	21.024
1.0476	9	5.733	1.1924	34	21.661
1.0529	10	6.371	1.1986	35	22.298
1.0584	11	7.008	1.2048	36	22.935
1.0639	12	7.645	1.2110	37	23.572
1.0695	13	8.282	1.2172	38	24.209
1.0751	14	9.919	1.2234	39	24.846
1.0807	15	9.556	1.2297	40	25.484
1.0863	16	10.193	1.2362	41	26.121
1.0919	17	10.830	1.2427	42	26.758
1.0975	18	11.467	1.2492	43	27.395
1.1031	19	12.105	1.2558	44	28.032
1.1087	20	12.742	1.2624	45	28.669
1.1145	21	13.379	1.2690	46	29.306
1.1204	22	14.016	1.2756	47	29.943
1.1263	23	14.653	1.2822	48	30.580
1.1322	24	15.290	1.2888	49	31.218
1.1381	25	15.927	1.2954	50	31.855

SPECIFIC GRAVITY AND PER CENT OF POTASSIUM BICHROMATE SOLUTION AT 19°.5.

Specific Gravity.	Per Cent.	Specific Gravity.	Per Cent.
1.0405	5.731	1.0847	11.583

REESE LIBRARY
OF THE
UNIVERSITY
OF

THIS BOOK IS DUE ON THE LAST DATE
STAMPED BELOW

AN INITIAL FINE OF 25 CENTS WILL BE ASSESSED FOR FAILURE TO RETURN THIS BOOK ON THE DATE DUE. THE PENALTY WILL INCREASE TO 50 CENTS ON THE FOURTH DAY AND TO $1.00 ON THE SEVENTH DAY OVERDUE.

DEC 4 1932
MAR 11 1934
APR 6 1939
MAY 11 1941
JUN 5 1947
MAR 1 1948
8Nov'51MC
25Oct'51LU
3Jan'62JWT

REC'D LD
DEC 5 - 1961
15Jan'63H1
REC'D LD
DEC 31 1962
NOV 7 1969
RECEIVED
OCT 24 '88 -1 PM
LIBRARY USE DEPT.
LIBRARY USE
APR 27 2000
REC'D BIOS
APR 27 '00 -5 00 PM

LD 21–50m-8,'32

QD65
A3

74883